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REPORT ON THE 1984 IN SITU MONITORING OF THE SAINT JOHN RIVER, N.B.

IWD-AR-WQB-85-74

INLAND WATERS DIRECTORATE
ATLANTIC REGION
WATER QUALITY BRANCH
MONCTON, NEW BRUNSWICK

REPORT ON THE 1984 IN SITU MONITORING

OF THE SAINT JOHN RIVER, N.B.

IWD-AR-WQB-85-74

Inland Waters Directorate

Environment Canada

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A copy will be made available in French upon request

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LETTER OF TRANSMITTAL

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Our file / Notre référence

Water Quality Branch
Inland Waters Directorate
P. O. Box 861
Moncton, N. B.

Dr. P.E. Belliveau, Chairman
International Technical Advisory Subcommittee
on the Water Quality in the Saint John River

Dear Dr. Belliveau:

The Water Quality Branch is pleased to transmit to you a report on the 1984 in situ monitoring of the Saint John River. This report presents the results of the Automatic Water Quality Monitor at Grand Falls as well as a discussion of the results of a Canada Works in situ monitoring program. Any questions or comments regarding these data would be welcome.

You will note from the report that the Grand Falls Monitor has experienced several malfunctions during 1984. These are related to the age of the equipment and the inability to obtain replacements. For these reasons we regret to advise we will be unable to operate this monitor in 1985.

Should you wish to discuss alternate arrangements, we would be pleased to meet with your Committee.

Yours truly,

D. H. Cullen, Chief
Water Quality Branch

Canada

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ABSTRACT

This report presents data from the Grand Falls Automatic Water Quality Monitor for the period June 13, 1984 to October 30, 1984. The parameters monitored include pH, water and air temperature, dissolved oxygen concentration and specific conductance. In addition *in situ* water quality monitoring data collected at 24 Saint John River stations during the period July 6, 1984 to October 18, 1984 is discussed. It was found that on most occasions, these parameters complied with the Saint John River water quality objectives.

RESUME

Les données recueillies par le moniteur automatique de la qualité des eaux situé a Grand Falls sont présentées dans ce rapport. Cette cueillette de données a été effectuée du 13 juin au 30 octobre 1984. Les paramètres mesurés furent le pH, la température de l'air et de l'eau, la concentration d'oxygène dissous et la conductivité spécifique. Sont discutés également les résultats des analyses *in situ* de certains paramètres de la qualité des eaux. Ces valeurs proviennent d'un réseau de 24 stations situées sur la rivière Saint-Jean et visitées du 6 juillet au 18 octobre 1984. La plupart du temps, les paramètres étudiés se conformèrent avec les objectifs visés pour la qualité des eaux de la rivière Saint-Jean.

INTRODUCTION

To assist the Canada-US Committee on Water Quality of the Saint John River, the Water Quality Branch (WQB) of Inland Waters Directorate (IWD) operates an Automatic Water Quality Monitor (AWQM) at Grand Falls, N.B. (NAQUADAT Station No. 01NB01AF0005) which provides hourly measurements of water temperature, air temperature, dissolved oxygen concentration, pH and specific conductance. This report presents the AWQM data for the period commencing June 13, 1984 and ending on October 30, 1984.

In addition to the AWQM data, a sampling program was initiated in July, 1984 to provide a data base of *in situ* water quality measurements suitable for calibration and testing of a hydrodynamic water quality model for the Saint John River. Using resources made available under the Canada Works Program, measurements of water temperature, pH, dissolved oxygen and specific conductance were taken at 24 stations located between Connors and Grand Falls during the period July 6, 1984 to October 18, 1984 (Julian days 192 to 292). The data collected have been presented under a Canada Works cover (Beaulieu, 1984) but will be discussed in this report.

PRESENTATION OF DATA

Although the AWQM was not modified throughout the period of operation, it was necessary to employ two data logging systems. These two data storage systems necessitated the use of two different data presentation formats in this report. AWQM results for the period June 13 to September 10 (Julian days 165 to 254) were stored on chart and are presented in Tables 1 to 3. These tables present hourly values and daily statistics for water temperature, dissolved oxygen concentration and pH respectively.

Commencing on September 10 (Julian day 254) the AWQM data was stored on tape. Hourly measurements of air and water temperature, specific conductance, dissolved oxygen concentration and saturation and pH for the period September 10 to October 30 (Julian days 254 to 304) are presented in Appendix 1. This Appendix presents two specific conductance values for each hour as a nonfunctioning AWQM conductivity subsystem was replaced by two converted laboratory meters. Results from these two meters are distinguished in the data table as "specific conductance low" and "specific conductance high". These raw data have been summarized into daily statistics and are presented in Table 4. Screening of the raw data from Appendix 1 indicated that the "specific conductance low" values are more reliable than the "specific conductance high" and thus the former are presented in Table 4. In addition, the dissolved oxygen concentrations and saturations reported for Julian days 271 to 304 appear unrealistic when compared with Canada Works data

and AWQM data from previous years (Bingham and Howell, 1983; Howell and Bingham, 1984) and thus are not included in the summary table.

DISCUSSION

Water Temperature

Each of the twenty-four Saint John River stations sampled under the Canada Works Program exhibited similar temporal trends as is illustrated in Figure 1. As would be expected, water temperatures at these stations tend to follow ambient air temperatures.

The temporal variation of the AWQM water temperature data is presented in Figure 2 along with the Canada Works *in situ* monitoring results for Grand Falls. The mean daily water temperature at Grand Falls increased rapidly from an initial value of 13.8°C in July, reached a peak in August and declined rapidly in response to reduced solar insolation in September and October. Both the AWQM data (Figure 2) and the *in situ* monitoring data (Figure 1) indicate a slight increase in water temperature in October which appears to be in response to some high autumn daytime temperatures during days 283 to 295. (Table 4).

Dissolved Oxygen

The Saint John River dissolved oxygen concentrations exhibited large temporal and spatial variability during the study period (Figure 3). As would be expected the highest concentrations were observed during September and October when water temperature is declining. Figure 3 indicates that of the 537 dissolved oxygen measurements taken during the Canada Works Program only 10 observations were below the 5.0 mg/L Saint John River water quality objective (ITAS, 1980). A similar temporal pattern was observed for dissolved oxygen saturation (Figure 4). However, the safe Saint John River water quality objective of 80% resulted in 147 of 536 observations being below the objective. Using a more reasonable objective such as the 60% acute level set for the St. Croix River, only 16 of the 536 observations do not comply. On many occasions, dissolved oxygen saturations were well above 100%. The majority of these supersaturated values were observed during October and thus are unlikely to be the result of primary production. It is probable that the high saturations observed result from a combination of increased aeration during high discharge conditions, highly variable water and air temperatures and measurement error.

The temporal variation of the AWQM dissolved oxygen data is presented in Figure 5. Due to the small amount of reliable AWQM dissolved oxygen data, there is no obvious temporal trends. However, Figure 5 indicates that the AWQM data compares well with the Canada Works in situ data and that both sets of Grand Falls data comply with the 5 mg/L water quality objective.

Specific Conductance

Temporal variation of specific conductance at the Saint John River *in situ* monitoring stations is large, with the highest values observed in September and October during periods of reduced river discharge (Figure 6). The Madawaska River which enters the Saint John River just above Station No. 60 serves to increase the conductivity of the mainstem considerably and these effects are still apparent 56. km downstream at Grand Falls. The greatest effects of the Madawaska River are observed during September and October when dilution by the Saint John River is reduced due to low flow conditions.

The AWQM specific conductance data is presented in Figure 7 and unlike the other parameters, it does not compare well with the Grand Falls *in situ* monitoring data. This may be partially explained by the fact that the AWQM data has not been temperature compensated and thus is biased low. Some of the discrepancy between the AWQM and *in situ* values around day 285 may be a function of noncompensation during low water temperature periods. However, the lack of temperature compensation cannot explain all of the difference between the two data sets.

The *in situ* data exhibits considerable variability, even over short time periods. This highly variable nature of specific conductance is not characteristic of the Grand Falls Headpond and thus the *in situ* measurements should be viewed with some caution. In

addition, problems with the field equipment, may have resulted in erroneous readings, particularly during the early portion of the sampling program. Thus, the AWQM specific conductance data appears to be the most reliable.

pH

Although the pH data is somewhat limited due to equipment malfunction, the result of the *in situ* monitoring program (Figure 8) show a pattern similar to that observed for specific conductance. The pH of the Saint John River at the sites immediately below the confluence of the Madawaska increases drastically in response to high loads of high pH Kraft Mill effluent. However, unlike specific conductance, the high pH values dissipate quickly and by site 70 return to levels characteristic of the river above Edmundston. In all cases the pH values are within the suggested upper and lower pH objectives for the Saint John River.

At Grand Falls, the pH as measured by the AWQM was relatively stable ranging from 6.8 to 7.9 (Figure 9). These values are characteristic of the Grand Falls Headpond and comply with the Saint John River pH objective. The lowest pH values were observed in August and increased to a maximum in September and October. It may be that during low flow periods in the autumn, the high pH effluent from the Madawaska River is not sufficiently diluted and is thus able to elevate the pH of the downstream stations.

REFERENCES

Beaulieu, J. 1984. Background Data for Calibration and Modelling of Selected Water Quality Parameters in the Saint John River. Canada Works '84. J. Peters Management Limited. 16 pp.

Bingham, R.A. and G.D. Howell, 1983. Report on the 1982 Saint John River Automatic Water Quality Monitor Data at Grand Falls, N.B. Inland Waters Directorate Report No. IWD-AR-WQB-83-47. 57 pp.

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ITAS, 1980. Review and Update of Water Quality Objectives for the International Waters of the Saint John River Basin. A Report of the International Technical Advisory Subcommittee on Water Quality in the Saint John River Basin. September 1980. 61 pp.

LIST OF TABLES

Table 1 Hourly values and daily statistics for water temperature during the period June 13 to September 10, 1984.

Table 2 Hourly values and daily statistics for dissolved oxygen during the period June 13 to September 10, 1984.

Table 3 Hourly values and daily statistics for pH during the period June 13 to September 10, 1984.

Table 4 Daily statistics for the Saint John River AWQM during the period September 10, 1984 to October 10, 1984.

TABLE 1

HOURLY SAINT JOHN RIVER WATER TEMPERATURE
MEASUREMENTS FOR THE JULIAN PERIOD 165 TO 254

	165	166	167	168	169	170	171	172	173	174	175	176
0		15.0	13.8	13.8	15.0	15.9	16.8	16.8	16.8	16.5	15.9	15.9
100		15.0	13.8	13.8	15.0	15.9	16.8	16.8	16.8	16.5	15.6	15.9
200		14.7	13.8	13.8	15.0	15.9	16.5	16.8	16.8	16.2	15.6	15.9
300		14.7	13.8	13.8	15.0	15.9	16.5	16.8	16.8	16.2	15.6	15.6
400		14.7	13.5	13.8	15.3	15.9	16.5	16.8	16.5	16.2	15.6	15.6
500		14.4	13.5	13.8	15.3	16.2	16.5	16.8	16.5	16.2	15.3	15.6
600		14.4	13.5	13.8	15.3	16.2	16.5	16.8	16.5	15.9	15.3	15.6
700		14.4	13.5	13.8	15.3	16.2	16.5	16.8	16.5	15.9	15.3	15.6
800		14.4	13.5	13.8	15.6	16.2	16.5	16.8	16.5	15.9	15.6	15.3
900		14.4	13.5	14.1	15.6	16.2	16.5	16.8	16.5	15.9	15.6	15.3
1000		14.4	13.5	14.4	15.6	16.2	16.8	17.1	16.5	15.9	15.6	15.6
1100		14.4	13.8	14.7	15.6	16.5	16.8	17.4	16.5	15.9	15.9	15.6
1200		14.4	13.8	15.0	15.9	16.5	17.1	17.4	16.8	15.9	16.2	15.6
1300	15.9	14.4	13.8	15.0	15.9	16.8	17.1	17.4	16.8	16.2	16.2	15.6
1400	15.6	14.4	13.8	15.0	15.9	16.8	17.1	17.4	16.8	16.2	16.5	15.6
1500	15.6	14.4	14.1	15.0	15.9	17.1	17.4	17.4	16.8	16.2	16.5	15.6
1600	15.6	14.4	14.1	15.0	15.9	17.1	17.4	17.1	17.1	16.5	16.5	15.6
1700	15.6	14.4	14.1	15.0	15.9	16.8	17.4	17.4	17.1	16.5	16.5	15.6
1800	15.6	14.4	14.1	15.0	15.9	16.8	17.4	17.1	17.1	16.5	16.2	15.6
1900	15.3	14.4	14.1	15.0	15.9	16.8	17.1	17.1	17.1	16.5	16.2	15.6
2000	15.3	14.1	14.1	15.0	15.9	16.8	17.1	17.1	16.8	16.5	16.2	15.6
2100	15.3	14.1	13.8	15.0	15.9	16.8	17.1	17.1	16.8	16.2	16.2	15.3
2200	15.3	14.1	13.8	15.0	15.9	16.8	16.8	17.1	16.8	16.2	16.2	15.3
2300	15.3	14.1	13.8	15.0	15.9	16.8	16.8	16.8	16.8	15.9	16.2	15.3
MINIMUM	15.3	14.1	13.5	13.8	15.0	15.9	16.5	16.8	16.5	15.9	15.3	15.3
MAXIMUM	15.9	15.0	14.1	15.0	15.9	17.1	17.4	17.4	17.1	16.5	16.5	15.9
MEAN	15.5	14.4	13.8	14.5	15.6	16.5	16.9	17.0	16.7	16.2	15.9	15.6
SAMPLE SIZE	11.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0

HOURLY SAINT JOHN RIVER WATER TEMPERATURE
MEASUREMENTS FOR THE JULIAN PERIOD 165 TO 254

	177	178	179	180	181	182	183	184	185	186	187	188
0	15.3	14.1	12.9	13.2	15.0	15.6	17.1	18.9	19.8	20.7	20.7	21.0
100	15.3	14.1	12.9	12.9	15.0	15.6	17.1	18.9	19.8	20.7	20.7	21.0
200	15.0	14.1	12.9	12.9	15.0	15.6	17.1	18.9	19.8	20.7	20.7	20.7
300	15.0	13.8	12.6	12.9	15.0	15.6	17.1	18.9	19.8	20.7	20.4	20.7
400	15.0	13.8	12.6	12.9	15.0	15.6	17.1	18.9	19.8	20.7	20.4	20.7
500	15.0	13.8	12.6	12.9	15.0	15.6	17.1	18.9	19.8	20.7	20.4	20.4
600	14.7	13.8	12.6	12.9	15.0	15.6	17.1	18.9	19.8	20.4	20.4	20.4
700	14.7	13.8	12.6	13.2	15.0	15.6	17.1	18.9	19.8	20.4	20.4	20.4
800	14.7	13.8	12.6	13.2	15.0	15.6	17.4	18.9	19.8	20.4	20.4	20.4
900	14.7	13.8	12.6	13.2	15.0	15.9	17.7	19.2	20.4	20.7	20.4	20.4
1000	14.7	13.5	12.9	13.5	15.0	15.9	17.7	19.2	20.4	20.4	20.7	20.4
1100	14.7	13.5	12.9	13.8	15.3	16.2	17.7	19.5	20.7	20.4	21.0	20.4
1200	14.7	13.5	13.2	13.8	15.6	16.5	18.0	19.5	21.0	20.7	21.3	20.4
1300	14.7	13.5	13.2	14.1	15.6	16.5	18.3	19.8	20.7	20.7	21.0	20.4
1400	14.7	13.5	13.5	14.1	15.9	16.5	18.3	20.1	20.7	20.7	21.3	20.4
1500	14.7	13.5	13.5	14.4	15.9	16.8	18.6	20.1	21.0	21.0	21.3	20.7
1600	14.7	13.5	13.8	14.7	15.9	16.8	18.6	19.8	21.0	21.0	21.3	20.7
1700	14.7	13.2	13.8	14.7	15.9	16.8	18.9	19.8	20.7	21.0	21.3	20.7
1800	14.7	13.2	13.5	14.7	15.9	16.8	18.9	19.8	20.7	21.0	21.3	20.7
1900	14.7	13.2	13.2	15.0	15.9	17.1	18.9	19.8	20.7	21.0	21.3	20.7
2000	14.7	13.2	13.2	15.0	15.9	17.1	18.9	19.8	20.7	21.0	21.3	20.7
2100	14.4	13.2	13.2	15.0	15.9	17.1	18.9	19.8	20.7	21.0	21.3	20.7
2200	14.4	13.2	13.2	15.0	15.9	17.1	18.9	19.8	20.7	20.7	21.3	20.7
2300	14.4	12.9	13.2	15.0	15.9	17.1	18.9	19.8	20.7	20.7	21.3	20.7
MINIMUM	14.4	12.9	12.6	12.9	15.0	15.6	17.1	18.9	19.8	20.4	20.4	20.4
MAXIMUM	15.3	14.1	13.8	15.0	15.9	17.1	18.9	20.1	21.0	21.0	21.3	21.0
MEAN	14.8	13.6	13.1	13.9	15.4	16.3	18.0	19.4	20.4	20.7	20.9	20.6
SAMPLE SIZE	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0

HOURLY SAINT JOHN RIVER WATER TEMPERATURE
MEASUREMENTS FOR THE JULIAN PERIOD 165 TO 254

	189	190	191	192	193	194	195	196	197	198	228	229
0	20.7	19.8	18.3	17.7	18.6	18.9	18.0	17.4	17.4	17.4		21.3
100	20.7	19.8	18.0	17.7	18.6	18.6	18.0	17.4	17.4	17.4		21.3
200	20.4	19.5	18.0	17.7	18.6	18.6	18.0	17.1	17.4	17.4		21.3
300	20.4	19.5	17.7	17.7	18.6	18.6	18.0	17.1	17.1	17.4		21.3
400	20.4	19.5	17.7	17.7	18.6	18.6	18.0	17.1	17.1	17.4		21.6
500	20.4	19.2	17.7	17.4	18.6	18.3	18.0	17.1	17.1	17.1		21.6
600	20.4	19.2	17.7	17.4	18.6	18.3	18.0	17.1	17.1	17.1		21.6
700	20.4	19.2	17.7	17.4	18.6	18.3	18.3	17.1	17.1	17.1		21.6
800	20.4	18.9	17.7	17.7	18.6	18.3	18.3	17.1	17.1	17.1		21.3
900	20.1	18.9	17.7	17.7	18.6	18.3	18.0	17.4	17.1	17.1		21.3
1000	20.1	18.9	17.7	18.0	18.6	18.3	18.0	17.4	17.1	17.1		21.6
1100	20.1	18.9	17.4	18.0	18.6	18.3	18.0	17.4	17.1	17.1		21.6
1200	20.1	18.9	17.7	18.3	18.9	18.3	18.0	17.4	17.4	17.1		21.6
1300	20.4	19.2	18.0	18.3	18.9	18.3	18.0	17.4	17.4	17.4	21.3	21.9
1400	20.4	19.2	18.0	18.6	18.9	18.6	18.0	17.4	17.4	17.4	21.3	21.9
1500	20.4	19.2	18.0	18.6	18.9	18.6	18.0	17.4	17.4	17.4	21.3	22.2
1600	20.4	19.2	18.0	18.6	19.2	18.6	18.0	17.4	17.4	17.4	21.0	22.2
1700	20.4	19.2	18.0	18.6	19.2	18.6	18.0	17.4	17.4	17.4	21.0	22.2
1800	20.4	19.2	18.6	18.6	19.2	18.6	17.7	17.4	17.4	17.4	21.0	22.2
1900	20.1	18.9	18.6	18.6	19.2	18.6	17.7	17.4	17.4	17.4	21.0	22.2
2000	20.1	18.9	18.0	18.6	19.2	18.6	17.7	17.4	17.4	17.4	21.0	21.9
2100	20.1	18.6	18.0	18.6	19.2	18.3	17.4	17.4	17.4		21.0	21.9
2200	20.1	18.6	18.0	18.6	19.2	18.3	17.4	17.4	17.4		21.0	21.9
2300	19.8	18.3	18.0	18.6	18.9	18.3	17.4	17.4	17.4		21.3	21.6
MINIMUM	19.8	18.3	17.4	17.4	18.6	18.3	17.4	17.1	17.1	17.1	21.0	21.3
MAXIMUM	20.7	19.8	18.6	18.6	19.2	18.9	18.3	17.4	17.4	17.4	21.3	22.2
MEAN	20.3	19.1	17.9	18.1	18.8	18.5	17.9	17.3	17.3	17.3	21.1	21.7
SAMPLE SIZE	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	21.0	11.0	24.0

HOURLY SAINT JOHN RIVER WATER TEMPERATURE
MEASUREMENTS FOR THE JULIAN PERIOD 165 TO 254

	230	231	232	233	234	235	236	237	238	239	240	241	242
0	21.6	19.8	18.6	18.6	18.3	18.3	18.6	18.3	18.3	18.6	18.6	18.6	19.2
100	21.6	19.8	18.3	18.6	18.3	18.3	18.6	18.3	18.3	18.6	18.6	18.6	19.2
200	21.6	19.8	18.3	18.6	18.0	18.3	18.6	18.3	18.0	18.6	18.6	18.6	19.2
300	21.6	19.8	18.3	18.6	18.0	18.3	18.6	18.3	18.0	18.6	18.6	18.6	19.2
400	21.3	19.5	18.3	18.6	18.0	18.3	18.6	18.3	18.0	18.6	18.6	18.6	19.2
500	21.3	19.5	18.0	18.3	18.0	18.3	18.6	18.3	18.0	18.6	18.6	18.6	19.2
600	21.3	19.2	18.0	18.3	17.7	18.3	18.6	18.3	18.0	18.6	18.3	18.6	19.2
700	21.0	19.2	18.0	18.3	17.7	18.3	18.6	18.3	18.0	18.6	18.3	18.6	19.2
800	21.0	19.2	18.0	18.3	17.7	18.3	18.6	18.3	18.0	18.6	18.3	18.6	19.2
900	21.0	19.2	18.0	18.3	17.7	18.3	18.6	18.3	18.3	18.6	18.3	18.6	19.2
1000	20.7	19.2	18.0	18.6	17.7	18.3	18.6	18.3	18.3	18.3	18.6	18.6	19.2
1100	20.7	19.2	18.3	18.6	17.7	18.6	18.6	18.6	18.3	18.6	18.9	19.2	19.5
1200	20.7	19.2	18.3	18.6	17.7	18.6	18.6	18.6	18.6	18.6	19.2	19.5	19.8
1300	20.7	19.2	18.6	18.6	18.0	18.9	18.6	18.6	18.6	18.9	19.5	19.8	20.4
1400	20.7	19.2	18.9	18.9	18.0	19.2	18.6	18.6	18.9	19.2	19.5	19.5	20.1
1500	20.7	19.2	18.9	18.9	18.3	18.9	18.6	18.6	19.2	20.1	19.8	19.5	20.1
1600	20.4	19.2	18.9	18.9	18.3	18.9	18.6	18.6	19.2	20.1	19.8	19.8	20.4
1700	20.4	19.2	18.9	18.6	18.3	19.2	18.6	18.6	19.2	19.5	19.8	20.1	20.4
1800	20.4	19.2	18.9	18.6	18.3	18.9	18.6	18.6	19.2	19.2	19.5	19.8	20.4
1900	20.4	18.9	18.6	18.6	18.3	18.9	18.6	18.6	19.2	19.2	19.2	19.5	20.4
2000	20.4	18.9	18.6	18.6	18.3	18.6	18.6	18.3	18.9	19.2	19.2	19.5	20.1
2100	20.1	18.6	18.6	18.6	18.3	18.6	18.3	18.3	18.9	18.9	19.2	19.5	19.8
2200	20.1	18.6	18.6	18.6	18.3	18.6	18.3	18.3	18.9	18.6	18.9	19.5	19.8
2300	20.1	18.6	18.6	18.6	18.3	18.6	18.3	18.3	18.6	18.6	18.6	19.2	19.8
MINIMUM	20.1	18.6	18.0	18.3	17.7	18.3	18.3	18.3	18.0	18.3	18.3	18.6	19.2
MAXIMUM	21.6	19.8	18.9	18.9	18.3	19.2	18.6	18.6	19.2	20.1	19.8	20.1	20.4
MEAN	20.8	19.2	18.4	18.6	18.0	18.6	18.6	18.4	18.5	18.9	18.9	19.1	19.7
SAMPLE SIZE	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0

HOURLY SAINT JOHN RIVER WATER TEMPERATURE
MEASUREMENTS FOR THE JULIAN PERIOD 165 TO 254

	243	244	245	246	247	248	249	250	251	252	253	254
0	19.8	20.4	20.4	20.1	19.2	18.0	16.8	16.5	16.2	15.6	15.6	16.2
100	19.8	20.4	20.4	20.1	18.9	18.0	16.8	16.5	16.2	15.6	15.6	15.9
200	20.1	20.4	20.4	19.8	18.9	18.0	16.5	16.2	16.2	15.6	15.6	15.9
300	20.1	20.4	20.4	19.8	18.9	18.0	16.5	16.2	16.2	15.6	15.6	15.9
400	20.1	20.4	20.4	19.8	18.9	18.0	16.5	16.2	15.9	15.6	15.6	15.9
500	20.1	20.1	20.4	19.8	18.9	17.7	16.5	16.2	15.9	15.9	15.6	15.9
600	20.1	20.1	20.4	19.8	18.6	17.7	16.5	16.2	15.9	15.9	15.6	15.6
700	20.1	20.1	20.4	19.5	18.6	17.7	16.5	16.2	15.9	15.9	15.6	15.6
800	20.1	20.1	20.4	19.5	18.6	17.7	16.5	16.2	15.9	15.9	15.6	
900	20.1	20.4	20.4	19.5	18.6	17.7	16.5	16.2	15.9	15.9	15.9	
1000	20.4	20.4	20.4	19.5	18.6	17.7	16.5	16.2	16.2	15.9	16.2	
1100	20.4	20.4	20.4	19.5	18.6	17.7	16.8	16.2	16.2	15.9	16.2	
1200	20.4	20.4	20.4	19.5	18.6	17.7	16.8	16.2	16.2	16.2	16.5	
1300	20.4	20.4	20.4	19.8	18.6	17.7	16.8	16.5	16.2	16.2	16.8	
1400	20.4	20.7	20.4	19.8	18.6	17.4	16.8	16.5	16.2	16.5	16.8	
1500	20.4	20.7	20.4	19.8	18.6	17.4	17.1	16.5	16.2	16.2	16.8	
1600	20.4	20.7	20.4	19.8	18.6	17.4	17.1	16.5	16.2	16.2	16.8	
1700	20.4	20.7	20.4	19.8	18.6	17.4	17.1	16.5	16.2	15.9	16.8	
1800	20.4	20.7	20.4	19.5	18.6	17.4	17.1	16.5	16.2	15.9	16.5	
1900	20.4	20.7	20.4	19.5	18.6	17.1	16.8	16.5	15.9	15.9	16.5	
2000	20.4	20.4	20.4	19.2	18.6	17.1	16.8	16.2	15.9	15.9	16.5	
2100	20.4	20.4	20.4	19.2	18.3	17.1	16.8	16.2	15.9	15.9	16.2	
2200	20.4	20.4	20.4	19.2	18.3	16.8	16.8	16.2	15.6	15.6	16.2	
2300	20.4	20.4	20.1	19.2	18.3	16.8	16.5	16.2	15.6	15.6	16.2	
MINIMUM	19.8	20.1	20.1	19.2	18.3	16.8	16.5	16.2	15.6	15.6	15.6	15.6
MAXIMUM	20.4	20.7	20.4	20.1	19.2	18.0	17.1	16.5	16.2	16.5	16.8	16.2
MEAN	20.2	20.4	20.4	19.6	18.7	17.5	16.7	16.3	16.0	15.9	16.1	15.9
SAMPLE SIZE	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	9.0

TABLE 2

HOURLY SAINT JOHN RIVER AWQM DISSOLVED OXYGEN MEASUREMENTS FOR JULIAN DAYS 227 TO 254

	227	228	229	230	231	232	233	234	235	236
0		8.3	8.0	7.7	7.6	7.8	7.7	7.8	7.8	7.3
100		8.3	8.1	7.7	7.6	7.8	7.7	7.8	7.8	7.3
200		8.3	8.1	7.7	7.6	7.8	7.7	8.0	7.8	7.3
300		8.3	8.1	7.8	7.6	7.8	7.7	8.0	7.8	7.3
400		8.3	8.1	7.8	7.6	7.8	7.7	8.0	7.8	7.3
500		8.3	8.1	7.8	7.6	7.8	7.7	8.0	7.8	7.3
600		8.3	8.1	7.8	7.6	7.8	7.7	8.0	7.7	7.3
700		8.3	8.0	7.8	7.6	7.8	7.7	8.0	7.7	7.3
800	8.4	8.1	7.9	7.8	7.6	7.8	7.7	8.0	7.7	7.3
900	8.3	8.0	7.8	7.8	7.6	7.8	7.7	7.8	7.6	7.3
1000	8.3	7.8	7.8	7.8	7.6	7.7	7.7	7.8	7.4	7.1
1100	8.1	7.8	7.8	7.7	7.6	7.7	7.7	7.8	7.4	7.1
1200	8.1	7.8	7.8	7.6	7.6	7.7	7.7	7.8	7.4	7.1
1300	8.0	7.8	7.8	7.6	7.6	7.7	7.7	7.8	7.4	7.1
1400	8.1	8.0	7.8	7.6	7.6	7.7	7.7	7.8	7.4	7.1
1500	8.5	8.0	8.0	7.6	7.6	7.7	7.7	7.8	7.3	7.3
1600	8.5	8.0	7.8	7.6	7.6*	7.7	7.7	7.8	7.3	7.3
1700	8.4	8.0	7.8	7.6	7.6	7.7	7.7	7.7	7.3	7.3
1800	8.4	8.0	7.7	7.6	7.6	7.7	7.7	7.7	7.3	7.3
1900	8.4	8.0	7.7	7.6	7.6	7.7	7.7	7.7	7.3	7.3
2000	8.4	8.0	7.7	7.6	7.6	7.7	7.8	7.7	7.3	7.3
2100	8.4	8.1	7.7	7.6	7.6	7.7	7.8	7.7	7.3	7.4
2200	8.4	8.1	7.7	7.6	7.7	7.7	7.8	7.7	7.3	7.4
2300	8.4	8.1	7.7	7.6	7.8	7.7	7.8	7.8	7.3	7.6
MINIMUM	8.0	7.8	7.7	7.6	7.6	7.7	7.7	7.7	7.3	7.1
MAXIMUM	8.5	8.3	8.1	7.8	7.8	7.8	7.8	8.0	7.8	7.6
MEAN	8.3	8.1	7.9	7.7	7.6	7.8	7.7	7.8	7.5	7.3
SAMPLE SIZE	16.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0

HOURLY SAINT JOHN RIVER AWQM DISSOLVED
OXYGEN MEASUREMENTS FOR JULIAN DAYS 227 TO 254

	237	238	239	240	241	242	243	244	245	246
0	7.6	7.6	7.6	7.4	7.7	8.4	8.1	7.6	7.6	9.8
100	7.6	7.6	7.6	7.4	7.7	8.3	8.1	7.6	7.6	8.1
200	7.6	7.6	7.6	7.6	7.7	8.3	8.1	7.6	7.6	8.1
300	7.6	7.6	7.6	7.6	7.7	8.3	8.0	7.6	7.6	7.9
400	7.6	7.6	7.6	7.4	7.7	8.3	7.8	7.4	7.6	7.7
500	7.6	7.6	7.6	7.4	7.7	8.3	7.8	7.6	7.6	7.7
600	7.6	7.6	7.6	7.4	7.7	8.3	7.8	7.6	7.6	7.6
700	7.6	7.6	7.6	7.4	7.7	8.3	7.8	7.4	7.6	7.6
800	7.6	7.6	7.4	7.4	7.6	8.3	7.8	7.4	7.6	7.6
900	7.6	7.6	7.3	7.4	7.6	8.1	7.8	7.4	7.6	7.7
1000	7.6	7.6	7.3	7.4	7.6	8.1	7.8	7.3	7.4	7.7
1100	7.6	7.4	7.3	7.4	7.6	8.1	7.8	7.6	7.4	7.7
1200	7.7	7.4	7.3	7.4	7.6	8.1	7.8	7.6	7.4	7.7
1300	7.7	7.4	7.3	7.6	8.1	8.1	7.8	7.6	7.0	7.7
1400	7.7	7.4	7.4	7.6	8.1	8.1	7.8	7.6	9.0	7.7
1500	7.7	7.6	7.4	7.6	8.3	8.1	7.8	7.6	10.5	7.8
1600	7.7	7.6	7.4	7.6	8.3	8.1	7.8	7.6	9.8	7.9
1700	7.7	7.6	7.4	7.6	8.4	8.2	7.7	7.6	9.4	8.0
1800	7.7	7.6	7.4	7.6	8.3	8.3	7.7	7.6	9.7	8.0
1900	7.7	7.6	7.4	7.6	8.3	8.1	7.6	7.6	9.0	8.0
2000	7.6	7.6	7.6	7.6	8.4	8.1	7.6	7.6	9.5	8.1
2100	7.6	7.6	7.6	7.7	8.4	8.1	7.6	7.6	9.8	8.1
2200	7.6	7.6	7.6	7.7	8.4	8.1	7.6	7.6	9.8	8.1
2300	7.6	7.6	7.4	7.7	8.3	8.1	7.6	7.6	9.8	8.1
MINIMUM	7.6	7.4	7.3	7.4	7.6	8.1	7.6	7.3	7.0	7.6
MAXIMUM	7.7	7.6	7.6	7.7	8.4	8.4	8.1	7.6	10.5	9.8
MEAN	7.6	7.5	7.5	7.5	7.9	8.2	7.8	7.5	8.3	7.9
SAMPLE SIZE	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0

HOURLY SAINT JOHN RIVER ANQM DISSOLVED
OXYGEN MEASUREMENTS FOR JULIAN DAYS 227 TO 254

	247	248	249	250	251	252	253	254
0	8.1	7.8	8.5	9.1	8.8	8.0	7.3	5.9
100	8.1	7.8	8.5	9.0	8.8	8.0	7.3	5.7
200	8.1	7.8	8.7	9.0	8.7	7.8	7.1	5.6
300	8.1	7.8	8.7	9.0	8.7	7.8	7.0	5.6
400	8.1	7.8	8.7	8.8	8.7	7.8	7.0	5.6
500	8.1	7.8	8.8	8.8	8.7	7.8	6.9	5.5
600	8.1	7.8	8.8	8.8	8.7	7.8	6.7	5.5
700	8.1	8.0	8.8	8.7	8.7	7.8	6.7	5.3
800	8.1	8.7	8.8	8.7	8.7	7.8	6.7	5.5
900	8.1	8.7	8.8	8.8	8.7	7.8	6.6	5.5
1000	7.8	8.8	8.6	8.8	8.7	7.8	6.3	6.7
1100	7.8	8.8	8.7	8.7	8.8	8.0	6.4	7.0
1200	7.8	8.8	8.7	8.7	9.0	8.3	6.7	7.3
1300	7.8	8.8	8.8	8.7	9.0	8.4	7.0	8.1
1400	7.7	9.0	8.8	8.8	9.2	8.7	7.3	
1500	7.7	8.8	9.0	9.1	9.5	8.7	7.6	
1600	7.7	8.2	9.0	9.1	9.4	8.7	7.6	
1700	7.8	8.8	9.0	9.0	9.1	8.5	7.6	
1800	7.7	8.7	9.0	9.0	8.8	8.4	7.0	
1900	7.8	8.7	9.0	9.0	8.7	8.0	6.4	
2000	7.7	8.7	9.2	9.0	8.4	7.7	6.2	
2100	7.7	8.7	9.0	9.0	8.3	7.6	6.0	
2200	7.8	8.5	9.1	9.0	8.1	7.4	6.3	
2300	7.8	8.5	9.1	8.8	8.1	7.4	6.0	
MINIMUM	7.7	7.8	8.5	8.7	8.1	7.4	6.0	5.3
MAXIMUM	8.1	9.0	9.2	9.1	9.5	8.7	7.6	8.1
MEAN	7.9	8.4	8.8	8.9	8.8	8.0	6.8	6.0
SAMPLE SIZE	24.0	24.0	24.0	24.0	24.0	24.0	24.0	14.0

TABLE 3

HOURLY SAINT JOHN RIVER AWQM PH MEASUREMENTS
FOR THE JULIAN PERIOD 165 TO 254

	165	166	167	168	169	170	171	172	173.0	174	175	176
0		6.7	6.8	7.0	7.0	7.0	7.2	7.0	7.0	7.0	7.1	7.1
100		6.7	6.8	6.9	7.0	7.0	7.2	7.0	7.0	7.0	7.0	7.1
200		6.7	6.8	6.9	7.0	7.0	7.1	7.0	7.0	7.0	7.0	7.1
300		6.7	6.8	6.9	7.0	7.0	7.1	7.0	7.0	7.1	7.1	7.0
400		6.8	6.8	7.0	7.0	7.0	7.1	7.1	7.0	7.1	7.1	7.0
500		6.8	6.8	7.0	7.0	7.0	7.1	7.1	7.1	7.1	7.2	7.1
600		6.8	6.8	7.0	7.0	7.0	7.1	7.1	7.1	7.1	7.2	7.1
700		6.8	6.8	7.0	7.0	7.0	7.1	7.1	7.1	7.1	7.2	7.1
800		6.8	6.8	7.0	7.0	7.0	7.1	7.1	7.1	7.1	7.2	7.1
900		6.8	6.8	7.0	7.0	7.0	7.1	7.2	7.1	7.1	7.2	7.1
1000		6.8	6.8	7.1	7.0	7.0	7.1	7.1	7.1	7.1	7.2	7.1
1100		6.8	7.1	7.1	7.0	7.1	7.0	7.0	7.1	7.1	7.3	7.2
1200		6.8	7.1	7.1	7.1	7.1	7.1	7.0	7.2	7.1	7.3	7.2
1300	7.0	6.8	7.2	7.1	7.1	7.1	7.1	7.0	7.2	7.1	7.3	7.2
1400	7.0	6.8	7.2	7.1	7.1	7.2	7.1	7.0	7.2	7.2	7.3	7.2
1500	7.0	6.8	7.2	7.1	7.1	7.2	7.1	7.0	7.2	7.2	7.3	7.2
1600	7.0	6.8	7.1	7.1	7.1	7.2	7.1	7.0	7.2	7.3	7.3	7.2
1700	7.0	6.8	7.1	7.1	7.1	7.2	7.1	7.0	7.2	7.3	7.3	7.2
1800	7.0	6.8	7.1	7.0	7.1	7.2	7.1	7.0	7.2	7.3	7.2	7.2
1900	6.9	6.8	7.0	7.0	7.1	7.2	7.1	7.0	7.2	7.3	7.2	7.2
2000	6.9	6.8	7.0	7.0	7.1	7.2	7.0	7.0	7.1	7.2	7.1	7.2
2100	6.8	6.8	7.0	7.0	7.1	7.2	7.0	7.0	7.0	7.1	7.1	7.2
2200	6.8	6.8	7.0	7.0	7.1	7.2	7.0	7.0	7.0	7.1	7.1	7.2
2300	6.7	6.8	7.0	7.0	7.1	7.2	7.0	7.0	7.0	7.1	7.1	7.2
MINIMUM	6.7	6.7	6.8	6.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
MAXIMUM	7.0	6.8	7.2	7.1	7.1	7.2	7.2	7.2	7.2	7.3	7.3	7.2
MEAN	6.9	6.8	7.0	7.0	7.1	7.1	7.1	7.1	7.1	7.2	7.2	7.2
SAMPLE SIZE	11.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0

HOURLY SAINT JOHN RIVER AWOM PH MEASUREMENTS
FOR THE JULIAN PERIOD 165 TO 254

	177	178	179	180	181	182	183	184	185	186	187	188
0	7.2	7.1	6.8	6.8	7.0	6.7	7.0	7.0	6.9	7.0	6.9	7.2
100	7.2	7.1	6.8	6.8	6.8	6.7	6.9	7.0	6.9	7.0	6.9	7.3
200	7.2	7.1	6.8	6.7	6.8	6.8	6.9	7.0	7.0	7.0	6.9	7.3
300	7.2	7.1	6.8	6.7	6.8	6.8	6.9	7.0	7.0	7.0	6.9	7.3
400	7.2	7.0	6.8	6.7	6.8	6.8	6.9	7.0	7.0	7.0	6.8	7.3
500	7.2	7.0	6.8	6.7	6.8	6.8	6.9	7.0	7.0	7.0	6.9	7.3
600	7.1	7.0	6.8	6.8	6.8	6.8	6.9	7.0	6.9	7.0	6.8	7.2
700	7.1	7.0	6.8	6.8	6.8	6.8	6.9	7.0	6.9	7.0	6.8	7.2
800	7.1	7.0	6.8	6.8	6.7	6.7	6.9	7.0	7.0	7.0	6.9	7.1
900	7.1	6.8	6.8	6.8	6.6	6.6	6.9	7.0	7.0	7.0	6.9	7.0
1000	7.1	6.7	6.8	6.6	6.5	6.8	6.8	6.8	7.0	6.9	6.9	7.0
1100	7.1	6.6	6.9	6.6	6.5	6.9	6.7	6.8	7.0	6.9	7.0	7.0
1200	7.2	6.6	6.9	6.7	7.0	7.0	6.8	6.9	7.0	6.9	7.1	7.1
1300	7.2	6.7	6.9	6.7	7.0	7.0	7.2	6.9	7.1	7.0	7.4	7.1
1400	7.2	6.7	6.9	6.8	7.0	7.0	7.2	7.2	7.1	7.0	7.4	7.1
1500	7.2	6.7	7.0	6.8	7.0	7.0	7.1	7.2	7.2	6.8	7.4	7.1
1600	7.2	6.7	6.9	6.8	7.0	6.9	7.1	7.2	7.2	6.8	7.4	7.1
1700	7.2	6.8	6.9	6.8	6.7	7.0	7.0	7.2	7.1	6.9	7.4	7.2
1800	7.2	6.8	6.9	6.9	6.7	7.0	7.0	7.0	7.1	6.9	7.3	7.2
1900	7.2	6.8	6.9	6.9	6.8	7.0	7.0	7.0	7.1	6.9	7.2	7.2
2000	7.2	6.8	6.9	6.9	6.8	7.0	7.0	7.0	7.1	6.9	7.2	7.2
2100	7.2	6.8	6.8	7.0	6.8	7.0	7.0	7.0	7.1	6.9	7.2	7.2
2200	7.2	6.8	6.8	7.0	6.8	7.0	7.0	7.0	7.1	6.9	7.2	7.2
2300	7.2	6.8	6.8	7.0	6.7	7.0	7.0	6.9	7.1	6.9	7.4	7.2
MINIMUM	7.1	6.6	6.8	6.6	6.5	6.6	6.7	6.8	6.9	6.8	6.8	7.0
MAXIMUM	7.2	7.1	7.0	7.0	7.0	7.0	7.2	7.2	7.2	7.0	7.4	7.3
MEAN	7.2	6.9	6.9	6.8	6.8	6.9	7.0	7.0	7.1	7.0	7.1	7.2
SAMPLE SIZE	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0

HOURLY SAINT JOHN RIVER AWQM PH MEASUREMENTS
FOR THE JULIAN PERIOD 165 TO 254

	189	190	191	192	193	194	195	196	197	198	228	229
0	7.2	7.0	6.8	6.7	6.9	7.0	7.2	7.0	6.8	7.1		6.8
100	7.2	7.0	6.8	6.7	6.9	7.0	7.2	7.0	6.8	7.0		6.9
200	7.2	7.0	6.7	6.7	6.9	7.0	7.2	7.0	6.9	7.0		6.8
300	7.2	7.0	6.7	6.7	6.9	7.0	7.2	7.0	6.9	7.0		6.9
400	7.2	7.0	6.7	6.7	6.8	7.1	7.2	7.0	6.9	7.0		6.8
500	7.2	7.1	6.7	6.8	6.8	7.1	7.2	7.0	6.9	7.0		6.8
600	7.1	7.1	6.7	6.8	6.8	7.0	7.2	7.0	6.9	7.2		6.8
700	7.1	7.1	6.7	6.8	6.8	7.0	7.2	7.0	6.9	7.2		6.9
800	7.1	7.1	6.7	6.8	6.8	7.0	7.1	7.0	6.9	7.1		6.8
900	7.1	7.0	6.7	6.7	6.8	7.2	7.1	7.0	6.9	7.2		6.8
1000	7.1	6.8	6.6	6.6	6.6	7.2	6.9	6.8	6.8	7.0		6.8
1100	7.1	7.0	6.6	6.6	6.7	7.2	6.8	6.8	6.8	7.0		6.7
1200	7.1	7.1	6.7	6.7	6.8	7.2	6.8	6.9	6.8	7.0		6.8
1300	7.1	7.1	6.8	6.8	6.9	7.2	6.9	6.9	6.8	7.1	6.8	6.9
1400	7.1	7.1	6.8	6.9	6.9	7.2	6.9	7.0	6.8	7.1	6.7	6.9
1500	7.1	7.1	6.8	6.9	7.0	7.2	6.9	7.1	6.9	7.1	6.7	6.9
1600	7.2	7.0	6.8	7.2	7.0	7.2	7.0	7.1	7.2	7.1	6.7	6.9
1700	7.2	7.0	6.8	6.9	7.0	7.1	7.0	7.1	7.2	7.1	6.7	6.9
1800	7.1	7.0	7.0	6.9	7.0	7.0	7.2	7.1	7.2	7.1	6.7	6.9
1900	7.1	7.2	7.0	6.9	7.0	7.2	7.2	7.1	7.2	7.1	6.8	6.9
2000	7.1	6.9	6.8	6.9	7.4	7.1	7.2	7.1	7.1	7.1	6.8	6.9
2100	7.1	6.9	6.8	6.9	7.0	7.2	7.0	7.0	7.0	7.1	6.8	6.9
2200	7.1	6.9	6.8	6.9	7.0	7.2	7.0	6.9	7.0	7.1	6.8	6.9
2300	7.1	6.8	6.8	6.9	7.0	7.2	7.0	6.8	7.1	7.1	6.8	6.9
MINIMUM	7.1	6.8	6.6	6.6	6.6	7.0	6.8	6.8	6.8	7.0	6.7	6.7
MAXIMUM	7.2	7.2	7.0	7.2	7.4	7.2	7.2	7.1	7.2	7.2	6.8	6.9
MEAN	7.2	7.0	6.8	6.8	6.9	7.1	7.1	7.0	7.0	7.1	6.8	6.9
SAMPLE SIZE	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	11.0	24.0

HOURLY SAINT JOHN RIVER AWQM PH MEASUREMENTS
FOR THE JULIAN PERIOD 165 TO 254

	230	231	232	233	234	235	236	237	238	239	240	241
0	7.0	6.8	7.0	7.0	7.1	7.0	7.0	6.9	6.8	7.0	7.0	7.1
100	7.0	6.8	7.0	7.0	7.0	7.0	7.0	6.9	6.8	7.0	7.0	7.1
200	7.0	6.8	7.0	7.0	7.0	7.0	7.0	6.9	6.8	7.0	7.0	7.1
300	7.0	6.8	7.0	7.0	7.0	7.0	7.0	6.9	6.8	6.9	7.0	7.1
400	7.0	6.8	7.0	7.0	7.0	7.0	7.0	6.9	6.8	6.9	7.0	7.0
500	7.0	6.8	7.0	7.0	7.0	7.0	7.0	6.9	6.8	6.9	7.0	7.0
600	7.0	6.8	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.9	7.0	7.1
700	7.0	6.8	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.9	7.0	7.1
800	7.0	6.8	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.9	6.9	7.1
900	7.0	6.8	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.9	6.9	7.1
1000	6.8	6.8	6.9	6.9	6.8	6.9	6.8	6.8	6.8	6.8	6.9	7.0
1100	6.8	6.8	6.9	6.8	6.8	6.9	6.8	6.8	6.8	6.8	6.9	7.0
1200	6.9	7.0	7.0	6.9	7.0	7.1	6.8	6.9	6.9	6.9	7.0	7.1
1300	7.0	7.0	7.0	7.1	7.1	7.1	6.9	6.9	7.0	7.0	7.1	7.2
1400	7.0	7.0	7.0	7.1	7.1	7.1	6.9	7.0	7.0	7.0	7.1	7.2
1500	7.1	7.1	7.1	7.1	7.1	7.1	7.0	7.0	7.0	7.0	7.1	7.2
1600	6.8	7.0	7.0	7.1	7.1	7.1	7.0	6.9	7.0	7.0	7.1	7.2
1700	6.9	7.0	7.0	7.1	7.1	7.1	6.9	6.9	7.1	7.0	7.1	7.2
1800	6.9	7.0	7.0	7.1	7.1	7.1	6.9	6.9	7.1	7.0	7.1	7.2
1900	6.9	7.0	7.0	7.1	7.1	7.1	6.9	6.9	7.1	7.1	7.1	7.2
2000	6.9	7.0	7.0	7.1	7.1	7.1	6.9	6.9	7.0	7.1	7.1	7.2
2100	6.9	7.0	7.0	7.1	7.1	7.0	6.9	6.9	7.0	7.1	7.1	7.1
2200	6.9	7.0	7.0	7.1	7.1	7.0	6.9	6.9	7.0	7.0	7.1	7.1
2300	6.9	7.0	7.0	7.1	7.0	7.0	6.9	6.9	7.0	7.0	7.1	7.1
MINIMUM	6.8	6.8	6.9	6.8	6.8	6.9	6.8	6.8	6.8	6.8	6.9	7.0
MAXIMUM	7.1	7.1	7.1	7.1	7.1	7.1	7.0	7.0	7.1	7.1	7.1	7.2
MEAN	7.0	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	7.0	7.0	7.1
SAMPLE SIZE	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0

HOURLY SAINT JOHN RIVER AWQN PH MEASUREMENTS
FOR THE JULIAN PERIOD 165 TO 254

	242	243	244	245	246	247	248	249	250	251	252	253	254
0	7.1	7.2	7.0	7.2	7.1	7.2	7.2	7.2	7.3	7.4	7.3	7.3	7.4
100	7.1	7.2	7.1	7.2	7.1	7.2	7.2	7.2	7.2	7.4	7.3	7.3	7.4
200	7.1	7.1	7.1	7.2	7.1	7.3	7.2	7.2	7.2	7.4	7.3	7.3	7.4
300	7.1	7.1	7.1	7.2	7.2	7.3	7.2	7.1	7.2	7.4	7.3	7.3	7.4
400	7.1	7.1	7.1	7.2	7.2	7.3	7.3	7.1	7.2	7.4	7.3	7.3	7.4
500	7.1	7.1	7.1	7.2	7.2	7.3	7.3	7.1	7.2	7.4	7.3	7.3	7.4
600	7.1	7.1	7.1	7.2	7.2	7.3	7.3	7.1	7.2	7.4	7.3	7.3	7.4
700	7.1	7.1	7.1	7.2	7.2	7.3	7.3	7.1	7.2	7.4	7.3	7.3	7.4
800	7.1	7.1	7.0	7.2	7.2	7.3	7.3	7.1	7.2	7.4	7.3	7.4	
900	7.1	7.1	7.0	7.2	7.2	7.3	7.3	7.1	7.2	7.4	7.4	7.4	
1000	7.0	7.0	7.0	7.1	7.1	7.2	7.2	7.2	7.2	7.4	7.3	7.3	
1100	7.0	7.0	7.0	7.1	7.0	7.0	7.2	7.2	7.2	7.3	7.3	7.2	
1200	7.0	7.1	7.1	7.2	7.0	7.1	7.1	7.2	7.2	7.3	7.4	7.2	
1300	7.2	7.1	7.2	7.2	7.1	7.2	7.2	7.3	7.2	7.3	7.4	7.3	
1400	7.3	7.1	7.2	7.2	7.1	7.2	7.2	7.3	7.3	7.4	7.4	7.4	
1500	7.3	7.2	7.2	7.2	7.3	7.2	7.2	7.3	7.3	7.4	7.4	7.4	
1600	7.3	7.2	7.2	7.2	7.3	7.2	7.3	7.4	7.3	7.4	7.4	7.4	
1700	7.3	7.2	7.2	7.2	7.3	7.3	7.2	7.4	7.4	7.4	7.4	7.4	
1800	7.3	7.1	7.2	7.2	7.4	7.3	7.2	7.4	7.4	7.4	7.4	7.4	
1900	7.2	7.1	7.2	7.3	7.4	7.2	7.2	7.4	7.4	7.4	7.4	7.4	
2000	7.2	7.1	7.2	7.2	7.3	7.2	7.2	7.4	7.4	7.4	7.4	7.4	
2100	7.2	7.1	7.2	7.2	7.3	7.2	7.2	7.4	7.4	7.3	7.4	7.4	
2200	7.2	7.1	7.2	7.1	7.3	7.2	7.2	7.4	7.4	7.3	7.4	7.4	
2300	7.2	7.0	7.2	7.1	7.2	7.2	7.2	7.3	7.4	7.3	7.4	7.4	
MINIMUM	7.0	7.0	7.0	7.1	7.0	7.0	7.1	7.1	7.2	7.3	7.3	7.2	7.4
MAXIMUM	7.3	7.2	7.2	7.3	7.4	7.3	7.3	7.4	7.4	7.4	7.4	7.4	7.4
MEAN	7.2	7.1	7.1	7.2	7.2	7.2	7.2	7.3	7.3	7.4	7.4	7.4	7.4
SAMPLE SIZE	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	9.0

TABLE 4

DAILY SUMMARY STATISTICS FOR THE 1984
SAINT JOHN RIVER AWQM DATA

STATISTIC	JULIAN DAY	AIR TEMP. DEG. C	WATER TEMP. DEG. C	SP. COND. US/CM	DISS. OXYGEN MG/L	DISS. OXYGEN % SAT'N.	PH
MINIMUM	254	16.4	16.0	88.0	8.7	77.4	5.5
MAXIMUM	254	23.9	16.6	90.7	10.2	94.2	7.5
MEAN	254	21.2	16.4	89.8	8.9	80.0	7.3
SAMPLE SIZE		15	15	14	15	15	15
MINIMUM	255	6.3	16.2	89.5	8.2	72.4	7.4
MAXIMUM	255	16.1	16.6	91.2	9.0	80.7	7.6
MEAN	255	10.4	16.3	90.4	8.8	78.4	7.5
SAMPLE SIZE		24	24	24	24	24	24
MINIMUM	256	0.8	16.0	90.3	1.2	8.9	7.3
MAXIMUM	256	11.7	16.5	93.0	8.2	72.5	7.5
MEAN	256	6.4	16.3	91.5	7.8	68.5	7.4
SAMPLE SIZE		24	24	24	24	24	24
MINIMUM	257	8.5	16.1	91.7	7.6	66.2	7.4
MAXIMUM	257	12.4	16.2	92.3	8.0	69.6	7.5
MEAN	257	10.1	16.2	91.9	7.8	67.6	7.4
SAMPLE SIZE		11	11	11	11	11	11
MINIMUM	261	1.0	14.2	93.8	7.1	61.1	2.6
MAXIMUM	261	13.2	14.8	95.5	7.5	64.6	7.7
MEAN	261	8.0	14.5	94.8	7.3	62.4	7.2
SAMPLE SIZE		11	11	11	11	11	11
MINIMUM	262	0.5	13.6	93.4	6.7	56.5	7.5
MAXIMUM	262	19.5	14.5	95.3	7.2	61.7	7.8
MEAN	262	8.7	14.0	94.5	7.0	59.4	7.7
SAMPLE SIZE		24	24	24	24	24	24
MINIMUM	263	4.3	13.6	93.3	6.6	55.7	7.5
MAXIMUM	263	13.7	13.9	95.3	6.9	59.0	7.8
MEAN	263	8.5	13.7	94.2	6.8	57.6	7.7
SAMPLE SIZE		24	24	24	24	24	24
MINIMUM	264	2.1	12.9	93.2	6.4	53.8	7.2
MAXIMUM	264	10.4	13.7	96.1	7.1	60.9	7.6
MEAN	264	6.8	13.4	95.1	6.6	56.2	7.6
SAMPLE SIZE		24	24	24	24	24	24
MINIMUM	265	0.8	12.1	92.6	7.0	60.1	7.4
MAXIMUM	265	6.8	12.9	94.0	7.7	66.8	8.0
MEAN	265	4.2	12.5	93.3	7.5	65.1	7.8
SAMPLE SIZE		24	24	24	24	24	24

DAILY SUMMARY STATISTICS FOR THE 1984
SAINT JOHN RIVER AWQM DATA

STATISTIC	JULIAN DAY	AIR TEMP. DEG. C	WATER TEMP. DEG. C	SP. COND. US/CM	DISS. OXYGEN MG/L	DISS. OXYGEN % SAT'N.	PH
MINIMUM	266	0.0	11.7	93.2	7.2	62.2	7.5
MAXIMUM	266	12.7	12.1	95.6	7.8	67.5	8.0
MEAN	266	3.9	11.9	94.1	7.6	65.6	7.8
SAMPLE SIZE		24	24	24	24	24	24
MINIMUM	267	0.5	11.5	94.2	6.8	57.2	7.3
MAXIMUM	267	14.0	12.0	97.9	7.6	66.1	7.9
MEAN	267	6.4	11.7	95.8	7.3	62.7	7.7
SAMPLE SIZE		24	24	24	24	24	24
MINIMUM	268	5.2	11.8	96.8	6.7	57.1	7.3
MAXIMUM	268	17.9	12.4	99.2	7.3	62.4	8.0
MEAN	268	11.2	12.0	98.0	7.0	59.7	7.7
SAMPLE SIZE		24	24	24	24	24	24
MINIMUM	269	0.8	11.6	96.2	6.9	59.0	7.7
MAXIMUM	269	23.3	12.2	98.1	7.7	67.1	8.0
MEAN	269	9.8	11.8	96.9	7.2	62.0	7.8
SAMPLE SIZE		24	24	24	24	24	24
MINIMUM	270	5.5	11.5	95.4	7.0	59.3	7.7
MAXIMUM	270	19.4	12.1	97.0	7.6	66.2	7.9
MEAN	270	15.3	11.9	96.5	7.4	63.4	7.8
SAMPLE SIZE		21	21	21	21	21	21
MINIMUM	271	0.2	11.1	91.6			7.6
MAXIMUM	271	5.9	11.6	96.0			7.9
MEAN	271	3.0	11.3	94.7			7.7
SAMPLE SIZE		24	24	24			24
MINIMUM	272	0.1	10.9	88.5			7.8
MAXIMUM	272	13.8	11.6	91.8			8.0
MEAN	272	5.9	11.2	89.5			7.9
SAMPLE SIZE		24	24	24			24
MINIMUM	273	1.3	11.3	79.4			7.6
MAXIMUM	273	16.1	11.9	88.9			8.0
MEAN	273	8.9	11.5	83.0			7.8
SAMPLE SIZE		24	24	24			24
MINIMUM	274	2.1	11.0	80.2			7.8
MAXIMUM	274	17.2	11.7	85.4			8.0
MEAN	274	8.1	11.3	82.4			7.8
SAMPLE SIZE		24	24	24			24

DAILY SUMMARY STATISTICS FOR THE 1984
SAINT JOHN RIVER AWQM DATA

STATISTIC	JULIAN DAY	AIR TEMP. DEG. C	WATER TEMP. DEG. C	SP. COND. US/CM	DISS. OXYGEN MG/L	DISS. OXYGEN % SAT'N.	PH
MINIMUM	275	0.9	10.6	83.5			7.6
MAXIMUM	275	12.4	11.0	87.3			7.9
MEAN	275	5.1	10.8	85.7			7.8
SAMPLE SIZE		24	24	24			24
MINIMUM	276	1.9	10.2	85.3			7.5
MAXIMUM	276	5.0	10.6	86.1			7.8
MEAN	276	3.2	10.3	85.8			7.7
SAMPLE SIZE		12	12	12			12
MINIMUM	283	3.1	5.1	74.6			7.4
MAXIMUM	283	15.0	5.7	78.1			7.8
MEAN	283	8.0	5.5	77.2			7.7
SAMPLE SIZE		15	15	15			15
MINIMUM	284	0.1	5.3	70.1			7.3
MAXIMUM	284	26.5	6.8	74.3			7.8
MEAN	284	6.5	5.8	72.7			7.6
SAMPLE SIZE		23	23	23			23
MINIMUM	285	1.6	5.6	63.4			7.4
MAXIMUM	285	24.0	6.7	70.3			7.7
MEAN	285	9.9	6.0	67.1			7.6
SAMPLE SIZE		24	24	24			24
MINIMUM	286	5.3	6.2	63.1			7.4
MAXIMUM	286	27.0	7.7	70.3			7.7
MEAN	286	11.9	6.8	66.2			7.5
SAMPLE SIZE		24	24	24			24
MINIMUM	287	0.2	7.0	69.5			7.2
MAXIMUM	287	23.3	8.4	72.9			7.6
MEAN	287	7.6	7.6	71.4			7.4
SAMPLE SIZE		24	24	24			24
MINIMUM	288	0.2	7.6	69.9			7.3
MAXIMUM	288	29.6	9.2	71.7			7.6
MEAN	288	8.3	8.2	70.6			7.4
SAMPLE SIZE		23	24	24			24
MINIMUM	289	1.7	8.3	64.2			7.4
MAXIMUM	289	29.0	10.4	70.6			7.6
MEAN	289	10.0	9.1	67.0			7.5
SAMPLE SIZE		24	24	24			24

DAILY SUMMARY STATISTICS FOR THE 1984
SAINT JOHN RIVER AWQM DATA

STATISTIC	JULIAN DAY	AIR TEMP. DEG. C	WATER TEMP. DEG. C	SP. COND. US/CM	DISS. OXYGEN MG/L	DISS. OXYGEN % SAT'N.	PH
MINIMUM	290	0.6	8.6	65.5			7.4
MAXIMUM	290	21.4	10.1	68.4			7.6
MEAN	290	6.7	9.3	66.7			7.5
SAMPLE SIZE		24	24	24			24
MINIMUM	291	0.2	8.8	65.8			7.4
MAXIMUM	291	23.0	10.4	74.6			7.8
MEAN	291	6.4	9.4	68.9			7.5
SAMPLE SIZE		24	24	24			24
MINIMUM	292	0.5	8.8	69.2			7.4
MAXIMUM	292	25.2	10.2	74.0			7.9
MEAN	292	7.0	9.4	71.2			7.6
SAMPLE SIZE		24	24	24			24
MINIMUM	293	0.9	8.9	72.7			7.4
MAXIMUM	293	15.1	9.7	76.2			7.9
MEAN	293	6.3	9.3	74.6			7.6
SAMPLE SIZE		24	24	24			24
MINIMUM	294	7.5	9.4	76.3			7.4
MAXIMUM	294	19.7	10.6	79.1			7.8
MEAN	294	12.2	9.8	77.3			7.6
SAMPLE SIZE		24	24	24			24
MINIMUM	295	2.1	9.3	77.5			7.4
MAXIMUM	295	14.4	9.9	79.2			7.8
MEAN	295	8.5	9.6	78.4			7.6
SAMPLE SIZE		19	19	19			19
MINIMUM	296	7.8	9.4	78.7			7.4
MAXIMUM	296	12.3	9.9	80.2			7.8
MEAN	296	10.5	9.7	79.4			7.6
SAMPLE SIZE		24	24	24			24
MINIMUM	297	3.9	9.2	79.3			7.5
MAXIMUM	297	21.0	9.9	81.9			8.4
MEAN	297	8.5	9.5	80.6			7.7
SAMPLE SIZE		24	24	24			24
MINIMUM	298	0.3	8.8	80.5			7.5
MAXIMUM	298	15.3	9.6	88.8			8.0
MEAN	298	5.9	9.1	83.5			7.7
SAMPLE SIZE		24	24	24			24

DAILY SUMMARY STATISTICS FOR THE 1984
SAINT JOHN RIVER AWQM DATA

STATISTIC	JULIAN DAY	AIR TEMP. DEG. C	WATER TEMP. DEG. C	SP. COND. US/CM	DISS. OXYGEN MG/L	DISS. OXYGEN % SAT'N.	PH
MINIMUM	299	1.4	8.5	90.1			7.4
MAXIMUM	299	11.2	9.4	100.3			8.0
MEAN	299	7.4	8.9	94.9			7.6
SAMPLE SIZE		24	24	24			24
MINIMUM	300	0.3	7.1	96.7			7.5
MAXIMUM	300	5.1	9.0	103.5			8.6
MEAN	300	2.1	7.9	99.5			7.7
SAMPLE SIZE		24	24	24			24
MINIMUM	301	1.5	7.1	100.4			7.5
MAXIMUM	301	4.9	7.8	104.7			8.0
MEAN	301	2.6	7.5	101.9			7.6
SAMPLE SIZE		24	24	24			24
MINIMUM	302	5.4	7.7	104.6			7.3
MAXIMUM	302	17.8	9.8	113.6			7.8
MEAN	302	11.1	8.8	108.8			7.5
SAMPLE SIZE		24	24	24			24
MINIMUM	303	0.3	7.7	106.8			7.5
MAXIMUM	303	18.3	9.7	113.7			8.0
MEAN	303	9.4	9.0	111.1			7.6
SAMPLE SIZE		24	24	24			24
MINIMUM	304	0.4	5.8	97.0			7.5
MAXIMUM	304	10.5	8.0	106.5			8.1
MEAN	304	4.2	6.7	101.4			7.8
SAMPLE SIZE		17	17	17			17

LIST OF FIGURES

Figure 1 Seasonal variation of water temperature at three sites on the Saint John River (July-Oct.).

Figure 2 Variation of Mean Daily water temperature at Grand Falls.

Figure 3 Seasonal and spatial variation of dissolved oxygen for 24 stations on the Saint John River.

Figure 4 Seasonal and spatial variation of percent saturation of dissolved oxygen for 24 stations on the Saint John River.

Figure 5 Variation of Mean Daily dissolved oxygen at Grand Falls.

Figure 6 Seasonal and spatial variation of specific conductance for 24 stations on the Saint John River.

Figure 7 Variation of Mean Daily specific conductance at Grand Falls.

Figure 8 Seasonal and spatial variation of pH for 24 stations on the Saint John River.

Figure 9 Variation of Mean Daily pH at Grand Falls.

FIGURE 1. SEASONAL VARIATION OF WATER TEMPERATURE AT THREE SITES ON THE SAINT JOHN RIVER (JULY - OCT)

FIGURE 2. VARIATION OF MEAN DAILY WATER TEMPERATURE AT GRAND FALLS

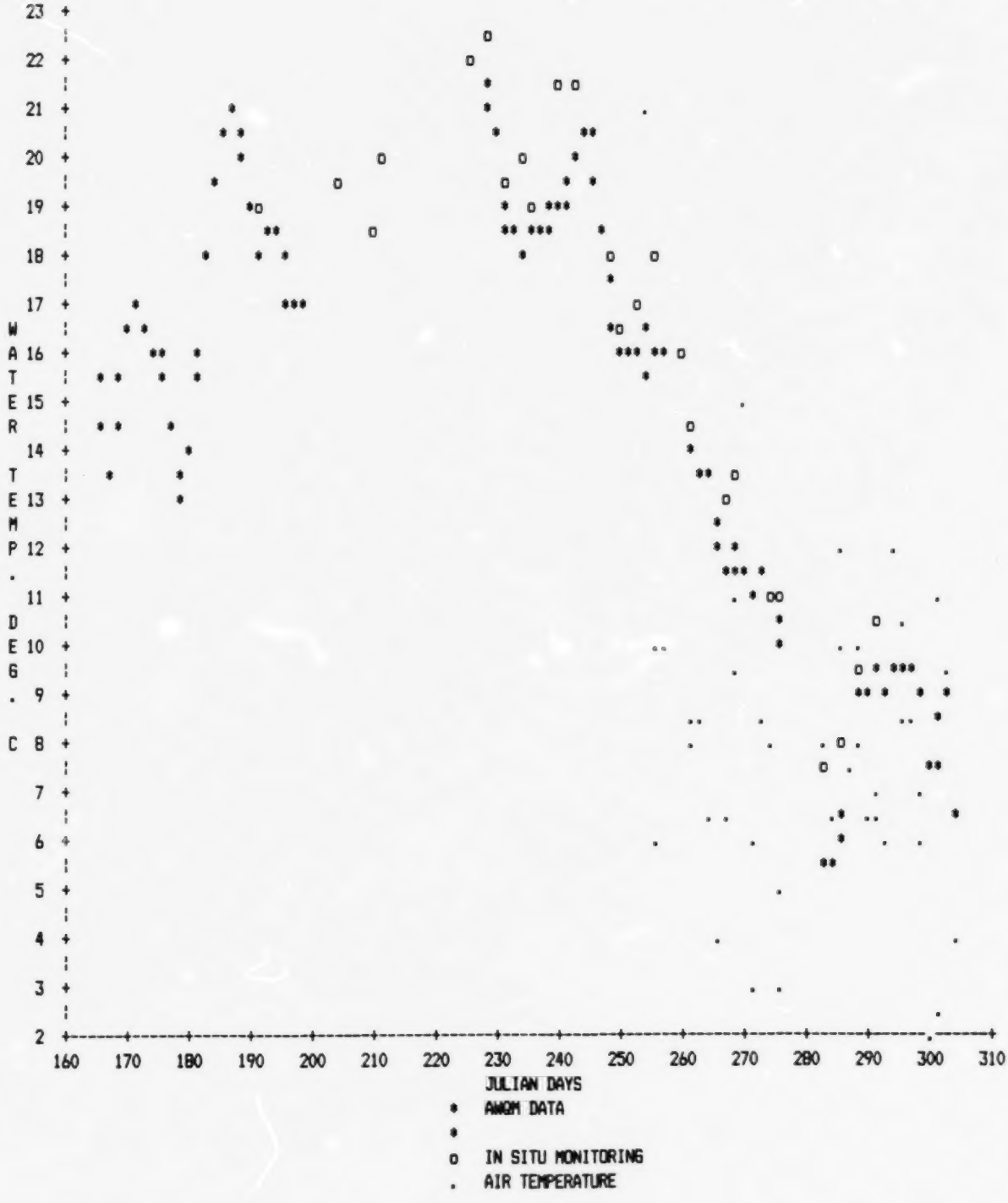


FIGURE 3. SEASONAL AND SPATIAL VARIATION
OF DISSOLVED OXYGEN FOR 24 STATIONS ON THE SAINT JOHN RIVER

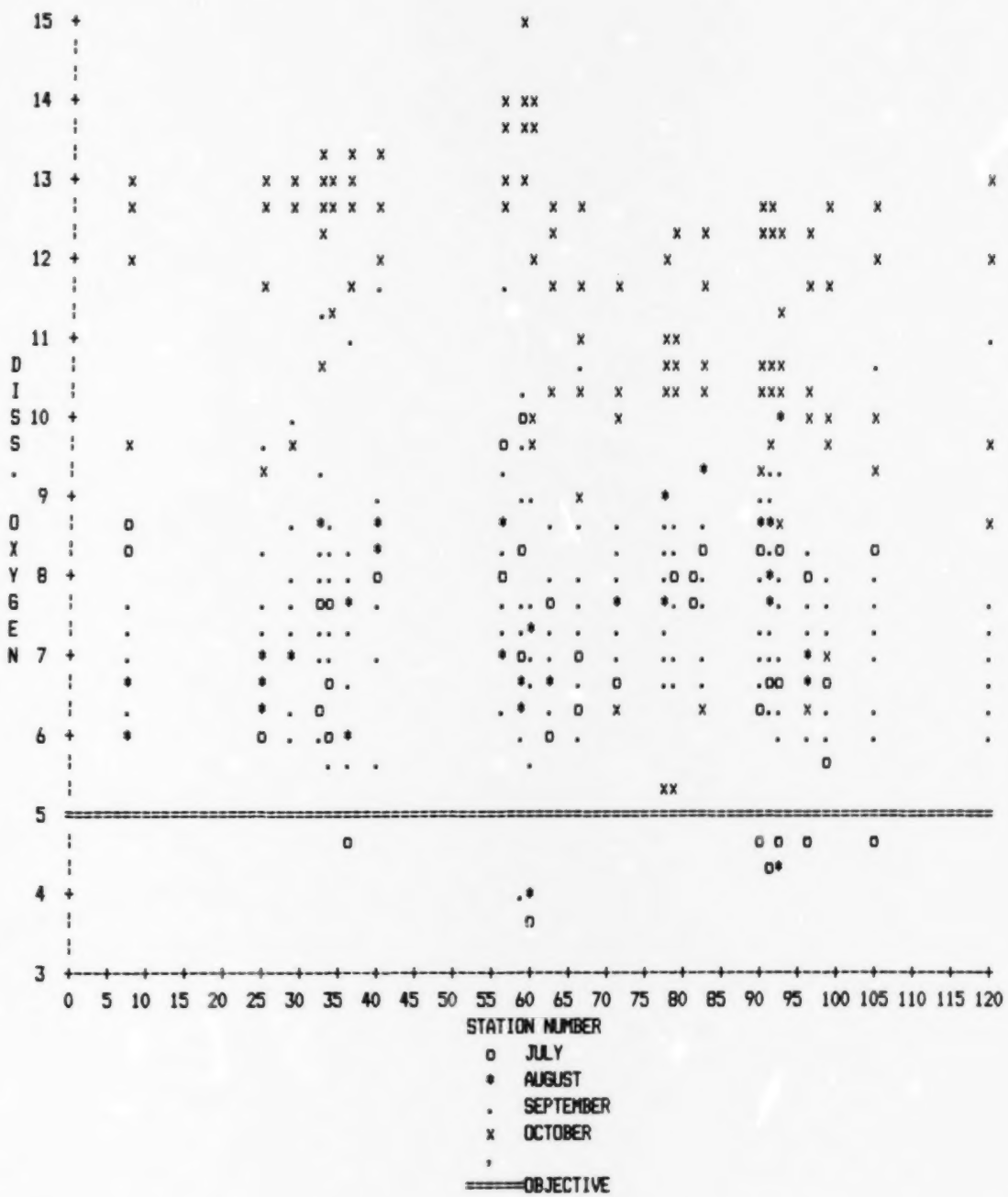


FIGURE 4. SEASONAL AND SPATIAL VARIATION
OF PERCENT SATURATION OF DISSOLVED OXYGEN FOR 24 STATIONS
ON THE SAINT JOHN RIVER

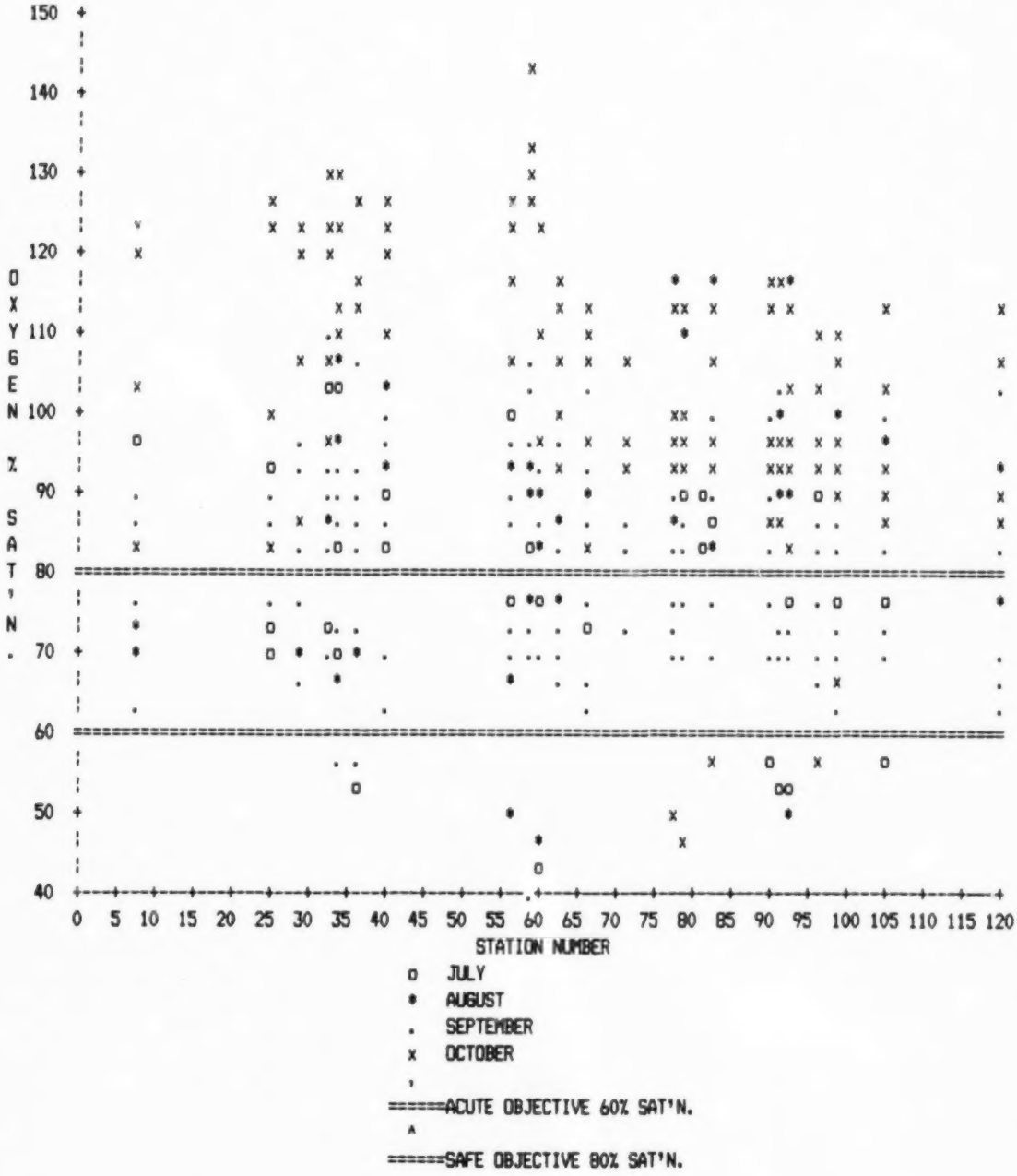


FIGURE 5. VARIATION OF MEAN DAILY
DISSOLVED OXYGEN AT GRAND FALLS

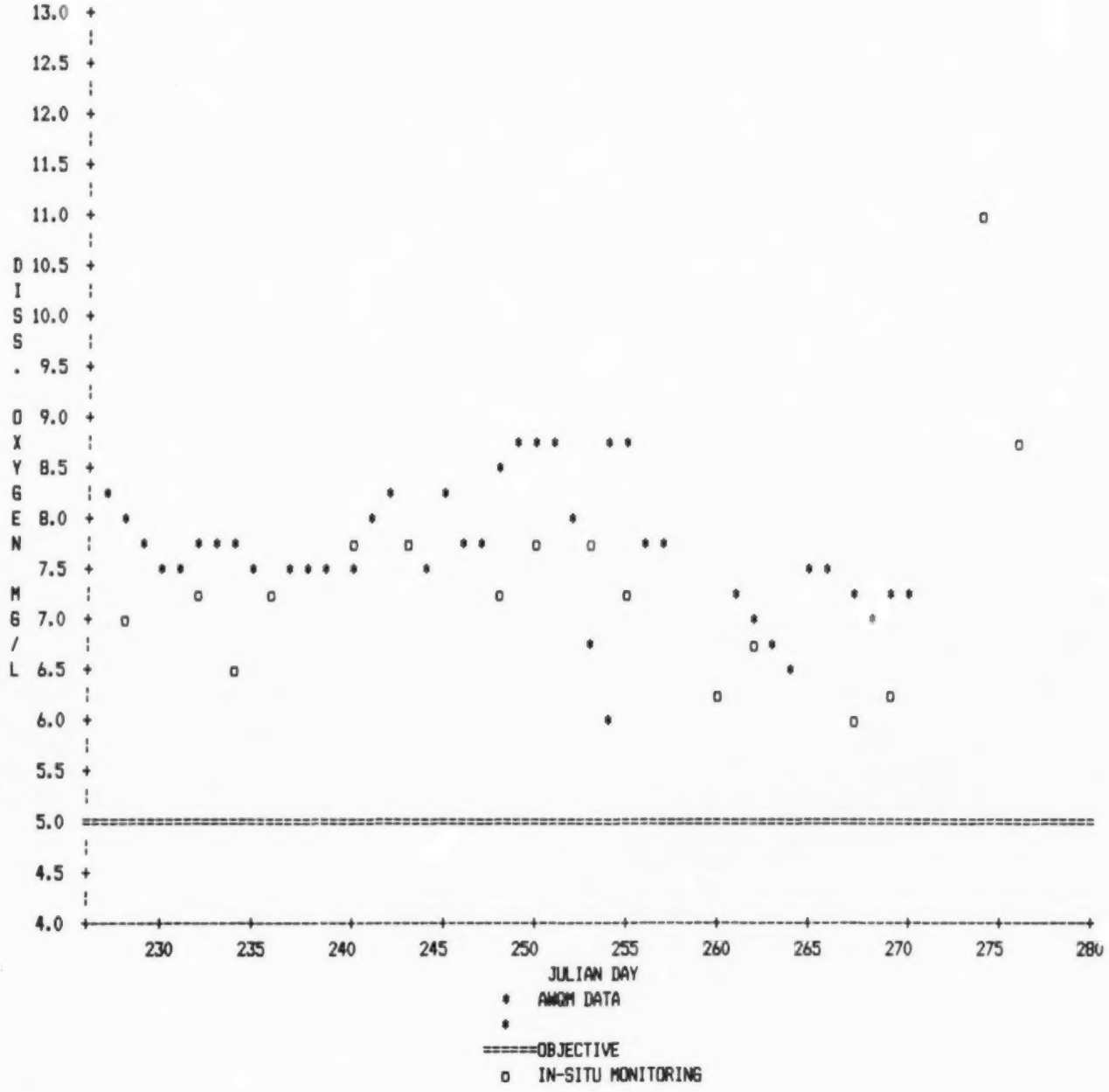


FIGURE 6. SEASONAL AND SPATIAL VARIATION
OF SPECIFIC CONDUCTANCE FOR 24 STATIONS ON THE SAINT JOHN RIVER

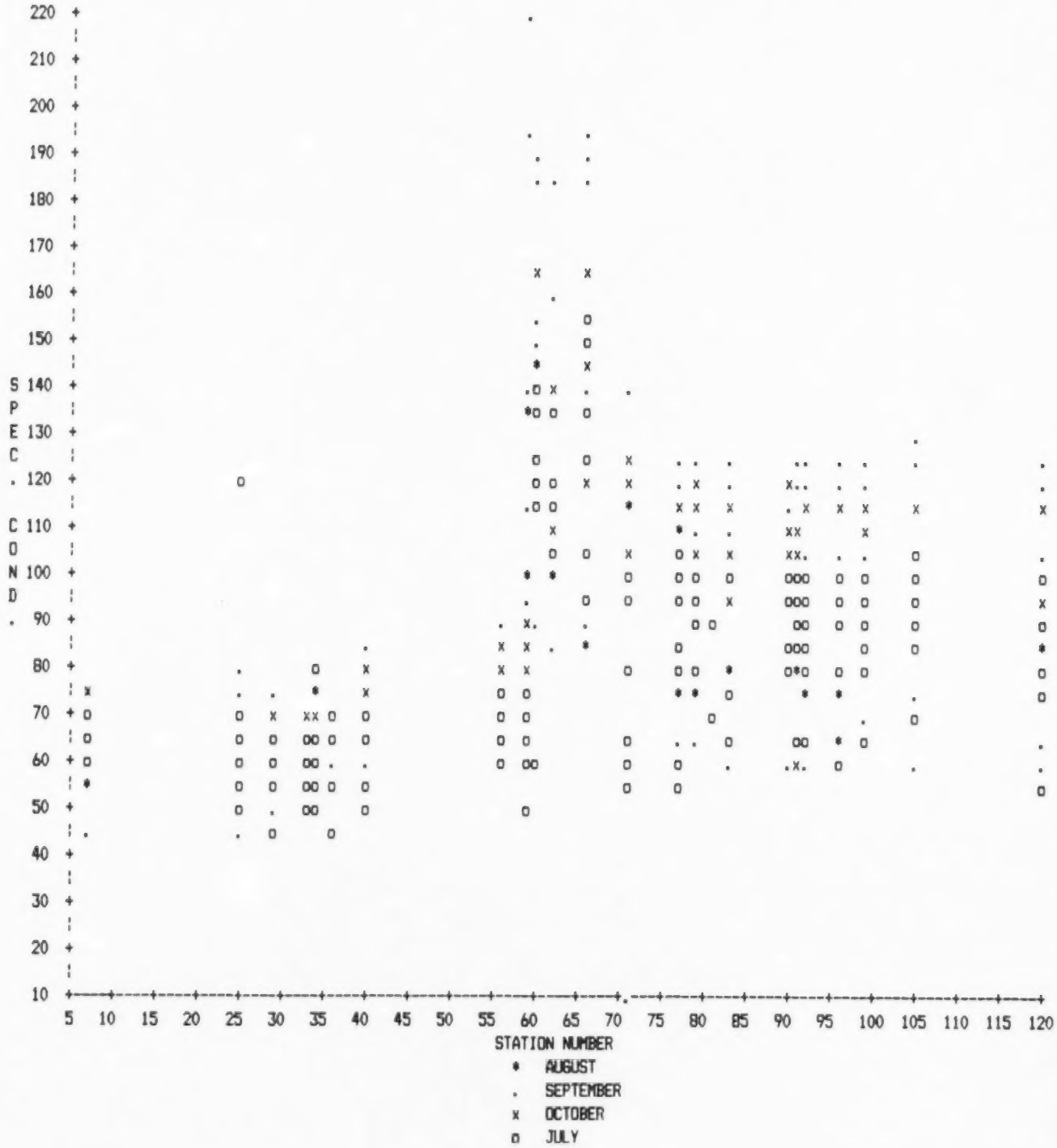


FIGURE 7. VARIATION OF MEAN DAILY
SPECIFIC CONDUCTANCE AT GRAND FALLS

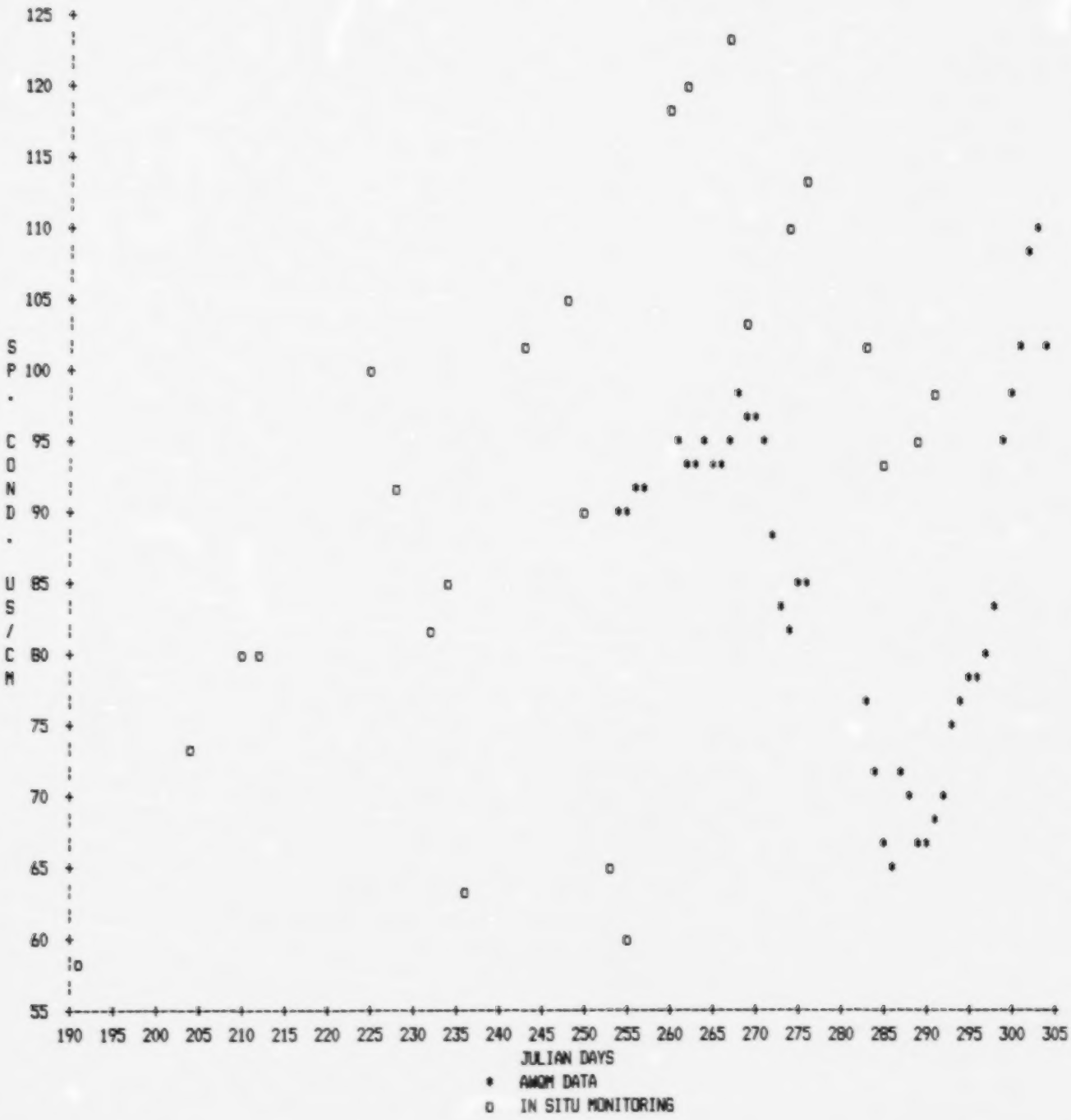


FIGURE 8. SEASONAL AND SPATIAL VARIATION
OF PH FOR 24 STATIONS ON THE SAINT JOHN RIVER

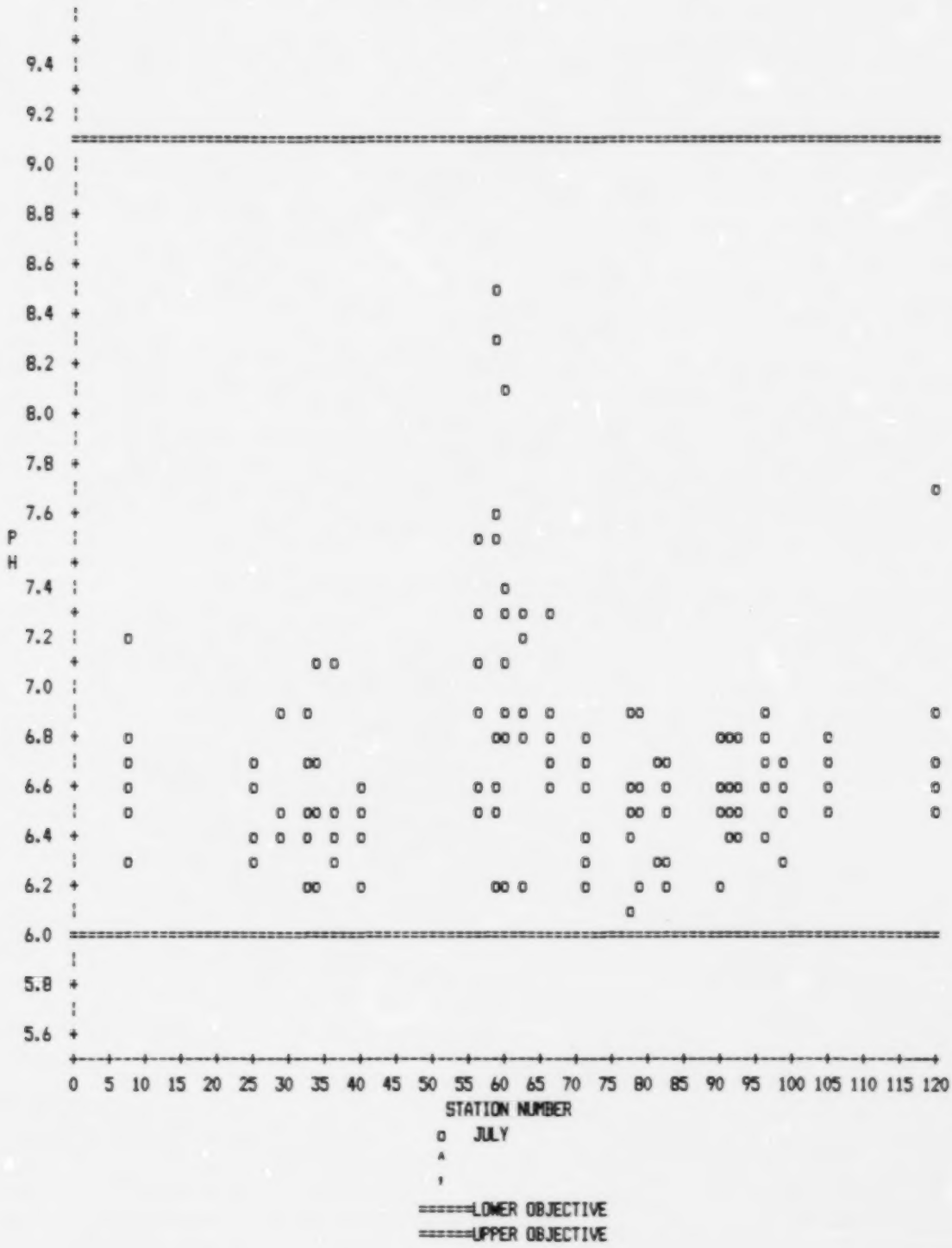
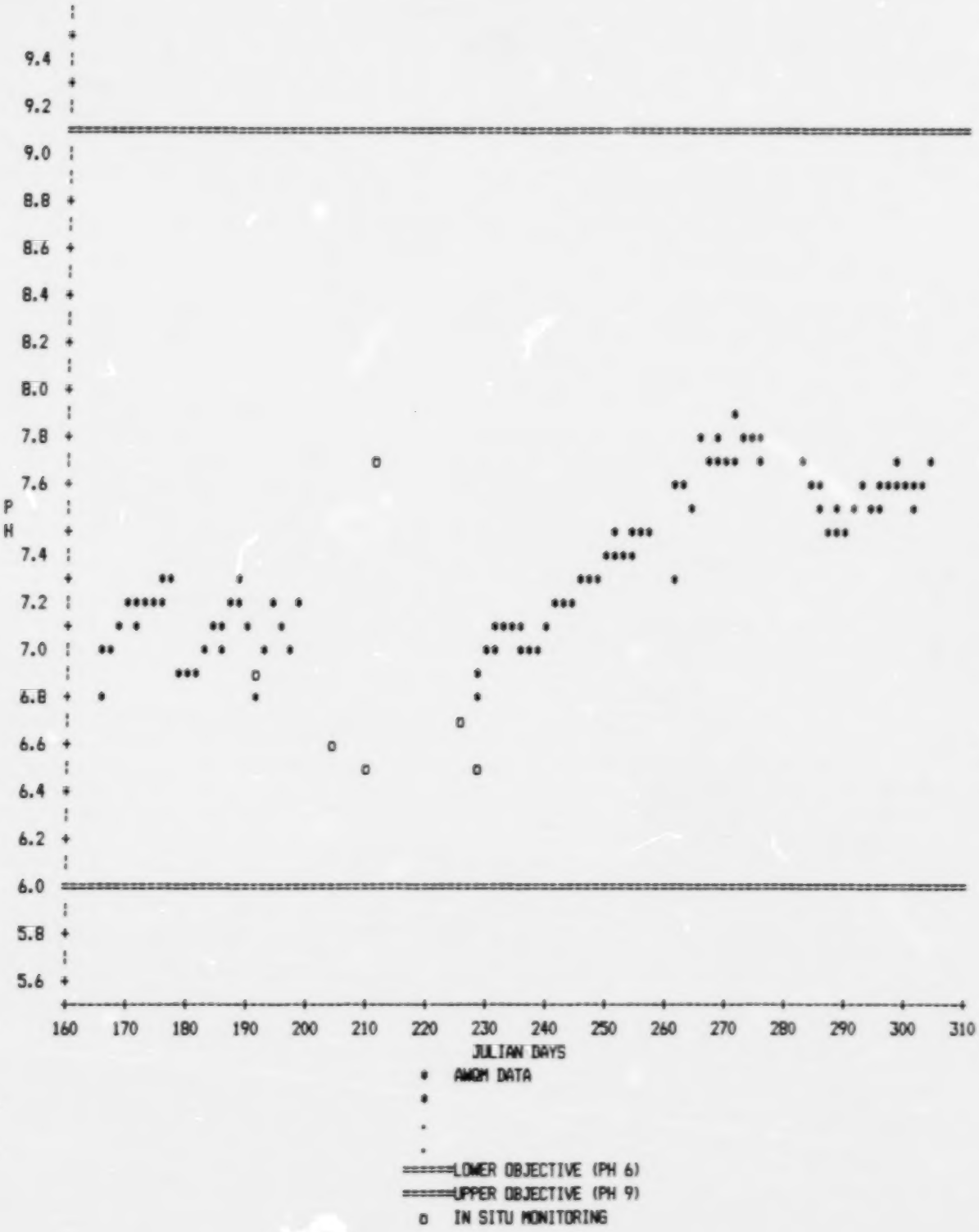


FIGURE 9. VARIATION OF MEAN DAILY PH AT GRAND FALLS



APPENDIX I

Automatic Water Quality Monitor Data

SAINT JOHN RIVER AWQN DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
254	900	88.0	8.8	16.0	7.4	75.0	19.8	78.9
254	1000	89.1	8.7	16.3	7.5	90.0	20.5	77.4
254	1100		10.2	16.4	5.5	135.0	21.8	94.2
254	1200	89.8	8.8	16.4	7.4	99.0	22.9	78.9
254	1300	89.8	8.9	16.5	7.4	99.0	22.9	79.7
254	1400	90.0	8.9	16.6	7.5	102.0	23.7	80.0
254	1500	90.7	8.9	16.6	7.5	108.0	23.9	79.6
254	1600	90.6	8.8	16.6	7.5	108.0	23.6	78.8
254	1700	90.7	8.8	16.5	7.5	108.0	23.2	78.8
254	1800	90.2	8.8	16.5	7.5	105.0	21.9	78.4
254	1900	89.7	8.9	16.5	7.5	102.0	20.8	79.3
254	2000	89.9	8.8	16.5	7.4	99.0	20.0	79.1
254	2100	89.4	8.9	16.4	7.5	96.0	19.3	79.6
254	2200	89.7	8.8	16.4	7.5	90.0	17.5	78.8
254	2300	89.5	8.8	16.3	7.5	87.0	16.4	78.3
255	0	89.5	8.7	16.2	7.4	84.0	16.1	77.9
255	100	89.5	8.8	16.3	7.4	81.0	16.0	78.1
255	200	89.9	8.8	16.2	7.4	81.0	15.8	78.2
255	300	89.8	8.8	16.2	7.4	78.0	11.1	78.0
255	400	90.0	8.8	16.2	7.4	78.0	10.8	78.5
255	500	89.6	8.8	16.3	7.5	75.0	8.6	78.8
255	600	89.9	8.8	16.2	7.4	72.0	8.0	79.0
255	700	89.9	8.9	16.2	7.5	66.0	7.3	79.4
255	800	90.0	8.9	16.2	7.4	63.0	6.3	79.3
255	900	90.0	8.9	16.2	7.5	63.0	6.4	80.2
255	1000	90.3	9.0	16.3	7.5	63.0	6.4	80.7
255	1100	90.5	9.0	16.3	7.5	69.0	8.8	80.6
255	1200	90.8	9.0	16.4	7.5	75.0	9.7	80.5
255	1300	91.0	8.8	16.5	7.6	81.0	11.4	79.0
255	1400	91.1	8.9	16.6	7.4	84.0	12.0	79.6
255	1500	91.2	8.9	16.6	7.5	87.0	13.2	79.7
255	1600	91.0	8.9	16.6	7.5	87.0	12.8	79.9
255	1700	91.0	8.9	16.5	7.5	87.0	12.0	79.8
255	1800	91.2	8.8	16.5	7.5	87.0	12.0	78.6
255	1900	90.8	8.8	16.5	7.5	84.0	11.5	78.6
255	2000	90.7	8.8	16.4	7.5	81.0	10.0	78.9
255	2100	90.4	8.3	16.4	7.4	66.0	8.0	73.4
255	2200	90.5	8.3	16.3	7.4	60.0	8.0	72.8
255	2300	90.5	8.2	16.3	7.4	57.0	6.8	72.4

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
256	0	90.3	1.2	16.3	7.3	57.0	7.1	8.9
256	100	90.7	8.2	16.3	7.4	57.0	5.7	72.5
256	200	90.6	8.2	16.2	7.4	54.0	5.2	72.3
256	300	91.0	8.2	16.2	7.4	51.0	3.9	72.2
256	400	91.0	8.2	16.1	7.4	48.0	2.7	72.5
256	500	90.6	8.2	16.1	7.4	45.0	1.1	72.4
256	600	90.9	8.2	16.0	7.4	42.0	1.1	72.3
256	700	90.7	8.2	16.0	7.4	36.0	0.8	72.3
256	800	91.0	8.2	16.0	7.4	39.0	0.9	72.1
256	900	91.2	8.1	16.0	7.4	39.0	1.3	71.3
256	1000	91.3	8.1	16.1	7.4	42.0	3.1	71.5
256	1100	91.6	8.1	16.2	7.4	48.0	6.0	70.9
256	1200	91.9	8.1	16.3	7.4	57.0	8.0	70.9
256	1300	91.8	8.1	16.4	7.4	60.0	10.0	71.0
256	1400	92.5	8.1	16.5	7.5	63.0	10.9	71.1
256	1500	92.4	8.1	16.5	7.5	66.0	11.7	71.3
256	1600	93.0	8.0	16.4	7.4	66.0	9.5	69.5
256	1700	92.3	8.0	16.4	7.4	63.0	9.6	70.0
256	1800	92.1	8.0	16.4	7.4	60.0	8.9	69.8
256	1900	91.8	8.0	16.4	7.4	60.0	8.9	70.2
256	2000	92.0	8.0	16.4	7.4	60.0	9.6	69.7
256	2100	91.5	8.0	16.3	7.4	60.0	8.7	69.9
256	2200	91.7	8.0	16.3	7.4	60.0	9.5	69.9
256	2300	91.9	8.0	16.2	7.4	60.0	8.3	69.8
257	0	91.8	8.0	16.2	7.5	63.0	8.5	69.6
257	100	91.7	7.9	16.2	7.4	63.0	9.1	69.0
257	200	91.8	7.8	16.2	7.4	63.0	9.6	68.3
257	300	92.3	7.8	16.2	7.4	66.0	9.8	67.8
257	400	91.8	7.8	16.2	7.4	66.0	10.3	67.6
257	500	92.2	7.7	16.2	7.4	66.0	10.7	67.3
257	600	91.7	7.7	16.1	7.4	69.0	9.7	67.3
257	700	92.0	7.7	16.1	7.4	69.0	10.3	67.3
257	800	91.7	7.7	16.1	7.4	69.0	9.5	66.9
257	900	91.8	7.7	16.2	7.4	72.0	10.8	66.4
257	1000	91.8	7.6	16.2	7.4	75.0	12.4	66.2

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
261	1300	93.8	7.5	14.2	7.5	66.0	7.0	64.6
261	1400	93.8	7.4	14.4	2.6	75.0	8.2	64.2
261	1500	95.3	7.4	14.6	7.7	102.0	10.1	63.5
261	1600	94.9	7.3	14.6	7.7	108.0	1.0	63.0
261	1700	95.5	7.3	14.8	7.7	111.0	13.2	62.5
261	1800	95.1	7.2	14.6	7.7	114.0	12.3	61.7
261	1900	94.9	7.2	14.6	7.6	117.0	12.4	61.3
261	2000	95.0	7.1	14.6	7.7	111.0	11.3	61.1
261	2100	94.7	7.2	14.4	7.7	102.0	5.9	61.3
261	2200	95.1	7.2	14.4	7.7	96.0	4.1	61.6
261	2300	95.2	7.2	14.2	7.7	87.0	2.6	61.3
262	0	94.9	7.2	14.1	7.7	84.0	1.6	61.5
262	100	94.5	7.1	14.0	7.6	78.0	1.1	61.2
262	200	94.8	7.2	14.0	7.7	72.0	1.0	61.5
262	300	94.6	7.2	14.0	7.6	69.0	1.1	61.5
262	400	94.8	7.2	13.9	7.7	63.0	1.3	61.7
262	500	94.5	7.2	13.8	7.6	60.0	0.6	61.5
262	600	94.7	7.2	13.8	7.7	60.0	0.5	61.7
262	700	94.7	7.2	13.8	7.7	57.0	0.5	61.4
262	800	94.0	7.2	13.6	7.6	57.0	0.5	61.3
262	900	94.1	7.1	13.6	7.6	60.0	1.3	60.5
262	1000	94.4	7.0	13.7	7.6	63.0	4.1	59.6
262	1100	94.7	6.9	13.7	7.7	72.0	10.1	59.1
262	1200	94.7	6.9	14.0	7.6	87.0	12.5	58.9
262	1300	94.7	6.8	13.9	7.6	102.0	14.5	57.9
262	1400	94.9	6.8	14.1	7.6	114.0	16.9	57.5
262	1500	95.3	6.7	14.2	7.6	123.0	16.8	56.5
262	1600	94.7	6.7	14.3	7.7	132.0	17.9	56.7
262	1700	95.0	6.8	14.5	7.7	138.0	18.7	57.3
262	1800	94.7	6.8	14.5	7.7	138.0	18.7	57.4
262	1900	94.7	6.9	14.5	7.7	141.0	19.5	58.6
262	2000	93.4	6.9	14.3	7.7	135.0	16.1	57.7
262	2100	93.4	6.8	14.2	7.8	123.0	12.4	58.1
262	2200	93.8	6.9	14.2	7.7	117.0	11.1	58.5
262	2300	93.9	6.8	14.0	7.5	108.0	8.9	57.2

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
263	0	93.8	6.8	13.9	7.5	102.0	8.1	57.3
263	100	93.4	6.9	13.9	7.6	99.0	7.7	58.5
263	200	93.9	6.9	13.9	7.8	96.0	6.7	58.4
263	300	94.0	6.9	13.8	7.7	93.0	5.6	58.4
263	400	93.8	6.9	13.8	7.7	90.0	5.8	58.6
263	500	94.2	6.9	13.8	7.7	87.0	5.4	58.2
263	600	94.0	6.9	13.7	7.7	84.0	4.7	58.3
263	700	93.7	6.9	13.7	7.7	84.0	4.3	58.6
263	800	94.1	6.9	13.7	7.7	81.0	4.8	58.9
263	900	93.7	6.9	13.6	7.7	84.0	5.6	58.6
263	1000	93.3	6.9	13.6	7.7	87.0	7.2	59.0
263	1100	93.8	6.8	13.6	7.7	90.0	8.6	57.9
263	1200	94.1	6.8	13.7	7.8	96.0	10.2	57.4
263	1300	94.6	6.8	13.7	7.7	99.0	11.4	57.5
263	1400	94.4	6.8	13.7	7.7	102.0	10.8	57.8
263	1500	93.9	6.8	13.6	7.6	102.0	9.8	57.6
263	1600	94.2	6.8	13.7	7.6	105.0	10.4	57.6
263	1700	94.6	6.7	13.9	7.7	114.0	13.4	57.1
263	1800	95.3	6.7	13.9	7.7	120.0	13.7	56.6
263	1900	94.9	6.7	13.9	7.6	120.0	13.3	56.7
263	2000	94.4	6.7	13.8	7.6	120.0	11.8	56.4
263	2100	94.8	6.6	13.7	7.6	114.0	9.4	56.1
263	2200	94.6	6.6	13.7	7.6	111.0	7.6	55.7
263	2300	95.0	6.6	13.7	7.6	105.0	7.9	55.8
264	0	94.9	6.6	13.7	7.6	102.0	7.7	55.7
264	100	95.2	6.6	13.7	7.6	99.0	7.0	55.8
264	200	95.0	6.6	13.7	7.6	99.0	6.0	55.5
264	300	95.3	6.5	13.6	7.6	96.0	5.6	54.7
264	400	95.4	6.5	13.5	7.6	87.0	3.5	54.5
264	500	95.0	6.5	13.5	7.5	87.0	3.4	54.3
264	600	95.6	6.4	13.5	7.6	84.0	2.4	54.1
264	700	95.3	6.4	13.5	7.6	81.0	2.4	54.1
264	800	95.6	6.4	13.4	7.6	78.0	2.1	53.8
264	900	95.2	6.5	13.5	7.6	81.0	3.2	54.3
264	1000	95.5	6.4	13.5	7.6	81.0	4.4	54.1
264	1100	95.5	6.6	13.6	7.6	87.0	8.2	55.5
264	1200	95.6	6.6	13.6	7.6	90.0	8.4	55.4
264	1300	95.3	6.5	13.5	7.6	93.0	7.2	54.9
264	1400	95.5	6.5	13.4	7.6	96.0	8.4	55.2
264	1500	95.5	6.8	13.4	7.2	99.0	8.0	57.3
264	1600	96.1	6.7	13.4	7.6	102.0	8.6	56.7
264	1700	96.1	6.7	13.3	7.5	105.0	8.6	56.5
264	1800	95.8	6.8	13.2	7.6	114.0	10.2	57.3
264	1900	94.8	6.8	13.2	7.5	114.0	9.6	58.1
264	2000	94.3	6.9	13.2	7.5	117.0	10.1	59.1
264	2100	93.2	7.1	13.1	7.5	117.0	10.4	60.3
264	2200	93.4	7.0	13.0	7.5	111.0	9.4	59.4
264	2300	93.8	7.1	12.9	7.6	105.0	8.6	60.9

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
265	0	93.4	7.0	12.9	7.4	105.0	6.6	60.1
265	100	93.5	7.3	12.9	7.6	105.0	6.8	63.0
265	200	93.0	7.4	12.9	7.7	102.0	6.1	63.8
265	300	92.9	7.4	12.8	7.7	99.0	6.1	64.0
265	400	93.0	7.4	12.8	7.8	96.0	5.8	64.2
265	500	92.9	7.5	12.7	7.8	96.0	5.5	64.4
265	600	92.8	7.4	12.7	7.8	90.0	3.6	64.2
265	700	92.8	7.5	12.7	7.7	87.0	2.1	64.5
265	800	93.2	7.5	12.6	7.7	84.0	1.7	65.0
265	900	92.6	7.6	12.5	7.8	78.0	1.6	66.0
265	1000	92.6	7.6	12.5	7.8	78.0	2.3	66.1
265	1100	92.9	7.6	12.5	7.8	81.0	2.7	65.8
265	1200	93.4	7.6	12.5	7.8	87.0	3.5	65.7
265	1300	93.6	7.5	12.6	7.8	93.0	5.7	65.3
265	1400	93.6	7.6	12.6	7.8	99.0	5.8	65.5
265	1500	93.8	7.6	12.5	7.9	99.0	5.5	65.5
265	1600	94.0	7.6	12.5	7.9	99.0	6.4	65.9
265	1700	93.5	7.6	12.4	7.8	99.0	5.6	65.8
265	1800	93.8	7.6	12.3	7.9	96.0	4.3	66.0
265	1900	93.9	7.6	12.3	7.9	99.0	5.7	66.1
265	2000	93.9	7.6	12.2	8.0	96.0	3.4	65.5
265	2100	93.3	7.7	12.2	7.8	90.0	2.2	66.6
265	2200	93.7	7.7	12.1	7.8	84.0	1.4	66.8
265	2300	93.8	7.7	12.1	7.8	78.0	0.8	66.7
266	0	93.6	7.7	12.0	7.8	75.0	1.3	67.1
266	100	93.5	7.7	12.0	7.8	75.0	1.1	67.0
266	200	93.4	7.8	11.9	7.8	69.0	0.6	67.5
266	300	93.5	7.7	11.9	7.8	69.0	0.4	67.1
266	400	93.8	7.6	11.9	7.5	66.0	0.4	65.3
266	500	93.3	7.6	11.8	7.6	66.0	0.2	65.7
266	600	93.4	7.7	11.8	7.9	60.0	0.2	67.0
266	700	93.2	7.7	11.8	7.8	63.0	0.0	66.9
266	800	93.8	7.7	11.7	7.8	60.0	0.1	67.2
266	900	93.5	7.7	11.8	7.8	60.0	0.3	66.8
266	1000	93.8	7.7	11.8	7.8	60.0	1.0	66.3
266	1100	93.8	7.7	11.8	7.8	69.0	2.6	66.3
266	1200	93.6	7.6	11.9	7.8	78.0	4.0	66.3
266	1300	93.9	7.5	11.9	7.8	93.0	5.3	65.3
266	1400	94.6	7.6	12.0	7.8	102.0	7.4	65.4
266	1500	95.0	7.6	12.1	7.9	111.0	7.8	65.5
266	1600	94.9	7.6	12.1	8.0	117.0	9.8	65.6
266	1700	94.9	7.5	12.1	7.8	123.0	10.5	64.5
266	1800	95.4	7.4	12.1	7.9	129.0	12.4	63.4
266	1900	95.6	7.3	12.1	7.9	132.0	12.7	63.2
266	2000	94.9	7.2	11.9	7.5	123.0	6.3	62.2
266	2100	94.6	7.4	11.9	7.9	114.0	4.3	64.2
266	2200	94.1	7.5	11.8	7.9	105.0	2.8	64.8
266	2300	94.3	7.5	11.7	7.7	99.0	1.9	64.4

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
267	0	94.2	7.6	11.7	7.9	93.0	1.3	66.1
267	100	94.3	7.6	11.7	7.8	87.0	0.9	65.5
267	200	94.3	7.6	11.6	7.8	84.0	0.7	65.8
267	300	94.6	7.5	11.6	7.8	81.0	0.6	65.2
267	400	94.9	7.4	11.6	7.5	75.0	0.5	63.6
267	500	95.0	7.6	11.6	7.9	75.0	0.5	65.4
267	600	94.4	7.6	11.6	7.8	72.0	0.6	65.5
267	700	94.6	7.5	11.5	7.8	75.0	0.7	65.0
267	800	94.5	7.5	11.5	7.7	75.0	0.9	64.8
267	900	95.1	7.5	11.5	7.8	78.0	1.3	64.5
267	1000	94.8	7.4	11.6	7.8	81.0	2.4	64.0
267	1100	95.0	7.4	11.6	7.7	87.0	3.1	63.9
267	1200	95.6	7.4	11.6	7.7	90.0	5.6	63.7
267	1300	96.3	7.3	11.7	7.7	105.0	8.9	62.5
267	1400	96.8	7.2	11.9	7.8	114.0	11.1	62.1
267	1500	96.9	7.2	12.0	7.8	126.0	13.3	61.9
267	1600	97.2	7.2	12.0	7.8	132.0	14.0	61.9
267	1700	97.2	7.0	12.0	7.7	138.0	13.7	59.8
267	1800	97.9	6.9	12.0	7.7	144.0	11.6	58.4
267	1900	97.2	6.8	11.8	7.3	141.0	12.3	57.2
267	2000	97.2	6.9	12.0	7.8	144.0	13.5	58.8
267	2100	96.9	7.0	11.9	7.7	147.0	13.2	59.3
267	2200	96.8	7.0	11.9	7.7	144.0	12.1	59.8
267	2300	97.0	7.0	11.9	7.7	144.0	10.3	59.6
268	0	97.3	6.8	11.9	7.3	141.0	9.9	57.9
268	100	96.8	7.0	11.9	7.7	138.0	8.8	59.5
268	200	96.9	7.0	11.9	7.7	141.0	10.0	59.5
268	300	97.4	6.8	11.9	7.3	141.0	9.7	57.4
268	400	97.2	6.8	11.9	7.3	141.0	10.2	57.2
268	500	97.0	6.8	11.9	7.3	141.0	9.8	57.4
268	600	97.8	7.0	11.9	7.8	138.0	8.7	59.2
268	700	97.1	6.9	11.9	7.7	135.0	7.9	59.1
268	800	97.4	6.7	11.8	7.3	129.0	7.3	57.1
268	900	97.5	6.9	11.8	7.7	129.0	7.7	59.1
268	1000	97.9	6.8	11.9	7.6	150.0	12.4	57.5
268	1100	98.7	6.8	11.9	7.8	141.0	12.7	57.2
268	1200	98.6	7.3	11.9	7.8	138.0	13.2	62.4
268	1300	99.0	7.2	12.0	7.8	147.0	13.1	61.7
268	1400	99.0	7.2	12.1	7.9	153.0	13.5	61.7
268	1500	99.2	7.2	12.2	7.9	162.0	14.4	61.6
268	1600	99.2	7.2	12.4	8.0	168.0	15.4	61.3
268	1700	99.0	7.1	12.4	7.9	171.0	14.8	60.5
268	1800	98.9	7.1	12.3	7.9	171.0	15.4	61.1
268	1900	98.6	7.1	12.3	7.9	171.0	17.9	60.3
268	2000	98.3	7.1	12.2	7.9	165.0	14.1	60.6
268	2100	97.3	7.1	12.1	8.0	150.0	9.5	60.7
268	2200	97.4	7.2	12.1	8.0	135.0	7.1	61.5
268	2300	97.1	7.1	11.9	7.5	126.0	5.2	60.3

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
269	0	97.2	7.2	11.9	7.9	114.0	3.6	62.0
269	100	96.9	7.2	11.8	7.7	111.0	2.9	61.7
269	200	96.6	7.2	11.8	8.0	102.0	2.1	61.5
269	300	97.0	7.1	11.8	7.9	96.0	1.5	60.3
269	400	97.0	7.1	11.7	7.8	93.0	1.3	61.0
269	500	97.0	7.0	11.6	7.8	87.0	0.9	60.1
269	600	97.0	7.1	11.6	7.8	84.0	0.8	60.6
269	700	96.7	7.0	11.7	7.8	84.0	0.9	59.5
269	800	97.2	7.0	11.6	7.8	81.0	1.0	60.2
269	900	96.5	7.0	11.6	7.8	78.0	1.1	59.6
269	1000	96.2	7.0	11.6	7.8	81.0	2.0	60.0
269	1100	96.5	7.1	11.6	7.8	84.0	4.6	60.3
269	1200	97.3	7.0	11.7	7.9	99.0	8.0	59.3
269	1300	96.7	7.0	11.7	7.8	111.0	11.0	59.8
269	1400	97.2	7.0	11.9	7.8	129.0	14.4	59.5
269	1500	97.6	6.9	12.2	7.8	141.0	15.8	59.0
269	1600	98.1	7.0	12.2	7.9	147.0	17.1	59.8
269	1700	97.4	7.5	12.2	7.9	144.0	22.4	64.7
269	1800	96.7	7.7	12.1	7.8	144.0	22.1	66.5
269	1900	96.9	7.6	12.1	7.8	144.0	23.3	66.1
269	2000	96.6	7.7	12.0	7.8	150.0	22.0	66.9
269	2100	97.0	7.6	12.0	7.8	144.0	18.6	66.3
269	2200	96.5	7.7	12.0	7.9	141.0	17.9	67.1
269	2300	96.9	7.7	12.0	7.8	138.0	18.8	66.9
270	0	97.0	7.6	12.1	7.8	138.0	18.7	66.2
270	100	96.9	7.5	11.9	7.8	138.0	17.9	64.3
270	200	96.6	7.5	11.9	7.8	138.0	18.0	65.2
270	300	96.3	7.5	11.9	7.9	138.0	18.4	64.5
270	400	96.4	7.4	11.9	7.8	138.0	18.6	64.2
270	500	96.9	7.6	12.0	7.8	141.0	18.6	65.6
270	600	97.0	7.6	12.0	7.7	141.0	18.3	65.5
270	700	97.0	7.5	12.1	7.7	141.0	18.3	65.0
270	800	96.9	7.5	12.0	7.8	141.0	17.9	64.7
270	900	96.5	7.5	11.9	7.7	141.0	17.9	64.5
270	1000	96.4	7.4	11.9	7.7	144.0	18.7	63.7
270	1100	96.4	7.5	11.9	7.7	147.0	18.8	64.5
270	1200	96.9	7.4	12.0	7.7	153.0	19.4	63.8
270	1300	96.6	7.3	11.9	7.7	138.0	14.1	63.1
270	1400	95.4	7.3	11.8	7.8	132.0	13.2	62.2
270	1500	96.3	7.3	11.8	7.8	123.0	11.4	62.5
270	1900	96.8	7.0	11.9	7.8	111.0	12.5	60.0
270	2000	96.5	7.0	11.7	7.8	111.0	10.8	59.3
270	2100	95.7	7.0	11.6	7.8	102.0	7.2	59.8
270	2200	95.7	7.1	11.5	7.7	93.0	5.5	61.0
270	2300	95.7	7.1	11.5	7.8	87.0	6.7	60.4

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
271	0	95.4	7.1	11.4	7.8	87.0	5.6	61.1
271	100	95.8	7.0	11.4	7.7	81.0	3.9	60.2
271	200	95.7	7.0	11.4	7.8	78.0	4.0	60.1
271	300	95.4	7.0	11.3	7.7	78.0	3.9	59.3
271	400	95.7	6.9	11.3	7.9	75.0	2.9	59.0
271	500	95.4	6.9	11.3	7.8	72.0	2.1	58.2
271	600	96.0	6.7	11.2	7.7	69.0	0.9	57.2
271	700	95.5	6.6	11.2	7.7	66.0	1.1	55.5
271	800	95.7	6.2	11.2	7.6	63.0	0.2	51.8
271	900	96.0	5.9	11.1	7.8	63.0		49.2
271	1000	95.3	5.7	11.1	7.7	60.0	0.5	47.2
271	1100	95.6	5.5	11.1	7.7	63.0	1.0	45.2
271	1200	95.4	5.4	11.2	7.7	69.0	1.8	44.0
271	1300	95.1	5.3	11.2	7.7	78.0	2.7	43.2
271	1400	94.7	5.2	11.4	7.8	84.0	4.0	42.5
271	1500	95.0	5.2	11.4	7.7	90.0	3.7	42.4
271	1600	94.6	5.2	11.5	7.7	90.0	5.4	42.3
271	1700	93.8	5.2	11.5	7.7	90.0	5.1	42.6
271	1800	94.5	5.2	11.6	7.8	96.0	5.9	42.4
271	1900	93.5	5.3	11.5	7.9	93.0	5.3	43.3
271	2000	93.1	5.3	11.6	7.8	90.0	5.2	43.3
271	2100	91.6	5.4	11.5	7.8	84.0	2.0	43.9
271	2200	91.7	5.4	11.4	7.8	81.0	1.8	44.2
271	2300	91.7	5.4	11.4	7.8	81.0	2.9	44.1
272	0	91.8	5.5	11.4	8.0	78.0	1.4	45.2
272	100	91.7	5.4	11.3	7.8	75.0	0.8	44.4
272	200	90.7	5.4	11.2	7.9	69.0	0.6	44.3
272	300	90.8	5.5	11.1	7.9	69.0	0.4	45.2
272	400	90.3	5.5	11.0	7.9	63.0	0.3	45.2
272	500	90.3	5.6	11.0	8.0	60.0	0.2	45.7
272	600	90.1	5.7	11.0	7.9	57.0	0.1	46.7
272	700	89.2	5.7	10.9	7.9	54.0		47.0
272	800	89.0	5.7	10.9	7.9	57.0		47.1
272	900	88.5	5.7	10.9	7.8	57.0	0.5	47.1
272	1000	88.8	5.7	10.9	8.0	60.0	1.7	47.4
272	1100	88.9	5.7	11.0	7.8	63.0	4.8	46.9
272	1200	88.8	5.7	11.1	7.8	69.0	7.8	47.0
272	1300	88.9	5.5	11.2	7.8	78.0	10.5	44.9
272	1400	88.8	5.5	11.4	7.9	87.0	11.7	44.9
272	1500	89.5	5.4	11.6	7.8	93.0	12.7	44.1
272	1600	88.9	5.4	11.4	7.8	93.0	12.5	43.8
272	1700	89.1	5.2	11.5	7.8	96.0	13.0	42.7
272	1800	89.3	5.2	11.5	7.9	99.0	13.8	42.4
272	1900	89.4	5.3	11.5	7.8	99.0	13.1	43.2
272	2000	89.3	5.4	11.5	8.0	96.0	11.8	43.9
272	2100	88.8	5.3	11.5	7.8	90.0	9.1	43.7
272	2200	89.1	5.3	11.5	7.8	90.0	8.9	43.5
272	2300	89.0	5.3	11.4	7.8	87.0	7.3	43.5

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
272	0	91.8	5.5	11.4	8.0	78.0	1.4	45.2
272	100	91.7	5.4	11.3	7.8	75.0	0.8	44.4
272	200	90.7	5.4	11.2	7.9	69.0	0.6	44.3
272	300	90.8	5.5	11.1	7.9	69.0	0.4	45.2
272	400	90.3	5.5	11.0	7.9	63.0	0.3	45.2
272	500	90.3	5.6	11.0	8.0	60.0	0.2	45.7
272	600	90.1	5.7	11.0	7.9	57.0	0.1	46.7
272	700	89.2	5.7	10.9	7.9	54.0		47.0
272	800	89.0	5.7	10.9	7.9	57.0		47.1
272	900	88.5	5.7	10.9	7.8	57.0	0.5	47.1
272	1000	88.8	5.7	10.9	8.0	60.0	1.7	47.4
272	1100	88.9	5.7	11.0	7.8	63.0	4.8	46.9
272	1200	88.8	5.7	11.1	7.8	69.0	7.8	47.0
272	1300	88.9	5.5	11.2	7.8	78.0	10.5	44.9
272	1400	88.8	5.5	11.4	7.9	87.0	11.7	44.9
272	1500	89.5	5.4	11.6	7.8	93.0	12.7	44.1
272	1600	88.9	5.4	11.4	7.8	93.0	12.5	43.8
272	1700	89.1	5.2	11.5	7.8	96.0	13.0	42.7
272	1800	89.3	5.2	11.5	7.9	99.0	13.8	42.4
272	1900	89.4	5.3	11.5	7.8	99.0	13.1	43.2
272	2000	89.3	5.4	11.5	8.0	96.0	11.4	43.9
272	2100	88.8	5.3	11.5	7.8	90.0	9.1	43.7
272	2200	89.1	5.3	11.5	7.8	90.0	8.9	43.5
272	2300	89.0	5.3	11.4	7.8	87.0	7.3	43.5
273	0	88.7	5.3	11.5	7.8	84.0	6.8	43.2
273	100	88.9	5.3	11.5	7.9	81.0	6.2	43.2
273	200	88.4	5.3	11.5	7.8	81.0	6.7	43.6
273	300	88.3	5.3	11.5	7.8	81.0	6.8	42.9
273	400	87.8	5.3	11.5	7.8	81.0	6.7	43.4
273	500	86.6	5.3	11.5	7.8	78.0	5.8	42.9
273	600	86.7	5.3	11.5	7.9	75.0	4.7	43.3
273	700	85.3	5.3	11.4	7.8	72.0	3.7	43.1
273	800	84.5	5.3	11.3	7.8	69.0	2.6	43.2
273	900	82.2	5.3	11.4	7.8	66.0	1.3	43.5
273	1000	81.0	5.3	11.4	7.8	63.0	2.5	43.6
273	1100	80.6	5.4	11.5	7.9	66.0	5.7	43.9
273	1200	80.2	5.3	11.5	7.8	72.0	9.1	43.2
273	1300	79.9	5.2	11.5	7.8	78.0	11.9	42.6
273	1400	79.7	5.2	11.7	7.8	84.0	13.0	42.2
273	1500	80.9	5.1	11.7	7.8	90.0	14.5	41.7
273	1600	80.5	5.1	11.8	8.0	96.0	15.3	41.7
273	1700	79.7	5.2	11.7	7.9	99.0	15.5	41.9
273	1800	80.0	5.2	11.9	7.9	99.0	16.1	42.7
273	1900	80.7	5.1	11.6	7.6	102.0	14.6	41.5
273	2000	79.4	5.2	11.5	7.8	96.0	12.4	42.4
273	2100	80.6	5.2	11.5	7.9	93.0	11.0	41.9
273	2200	80.1	5.2	11.4	7.8	90.0	10.4	42.4
273	2300	80.5	5.2	11.4	7.8	87.0	9.2	42.6

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
274	0	80.9	5.2	11.4	7.8	84.0	8.3	42.7
274	100	80.2	5.2	11.3	7.8	81.0	7.6	42.6
274	200	80.9	5.2	11.3	8.0	81.0	6.7	42.3
274	300	80.6	5.2	11.2	7.8	78.0	5.6	42.3
274	400	80.3	5.2	11.2	7.8	72.0	4.8	42.2
274	500	80.8	5.2	11.2	7.8	75.0	4.4	42.4
274	600	80.7	5.3	11.1	7.8	72.0	3.7	42.9
274	700	81.1	5.2	11.1	7.9	69.0	3.3	42.5
274	800	80.9	5.2	11.1	7.8	69.0	2.4	42.7
274	900	80.8	5.2	11.1	7.8	66.0	2.1	42.4
274	1000	80.5	5.2	11.1	7.8	66.0	2.6	42.2
274	1100	81.3	5.3	11.0	7.8	69.0	4.0	43.1
274	1200	82.0	5.2	11.2	7.9	75.0	7.4	42.7
274	1300	82.5	5.2	11.3	7.8	81.0	10.3	42.3
274	1400	83.5	5.0	11.5	7.8	90.0	13.3	40.6
274	1500	84.6	5.1	11.6	7.8	99.0	13.0	41.3
274	1600	84.8	4.9	11.6	7.8	105.0	15.5	39.9
274	1700	85.4	5.0	11.7	7.8	108.0	17.2	40.1
274	1800	84.4	4.9	11.6	7.8	108.0	14.6	40.0
274	1900	85.0	5.0	11.6	7.8	105.0	13.5	40.1
274	2000	84.8	4.9	11.4	7.8	99.0	12.9	39.9
274	2100	84.3	5.0	11.3	7.8	96.0	9.0	40.2
274	2200	84.3	4.9	11.2	7.8	87.0	6.3	39.4
274	2300	84.3	4.9	11.0	7.8	84.0	4.7	39.8
275	0	84.4	4.9	11.0	7.8	78.0	2.9	39.8
275	100	84.6	4.9	10.9	7.8	72.0	1.5	39.7
275	200	84.5	4.9	10.9	7.8	69.0	0.9	39.2
275	300	84.4	4.9	10.8	7.7	66.0	0.6	39.7
275	400	83.5	4.9	10.9	7.6	63.0		39.7
275	500	84.3	4.9	10.8	7.7	63.0		39.9
275	600	84.4	5.0	10.8	7.8	63.0	0.1	40.1
275	700	84.4	4.9	10.8	7.7	60.0		39.9
275	800	84.7	5.0	10.8	7.8	60.0	0.6	40.1
275	900	85.2	5.8	10.6	7.8	60.0	1.5	48.0
275	1000	85.5	5.7	10.6	7.9	57.0	2.5	47.0
275	1100	86.0	5.6	10.7	7.9	63.0	4.7	46.5
275	1200	86.4	5.6	10.7	7.9	66.0	7.3	45.8
275	1300	86.6	5.5	10.7	7.8	69.0	7.9	45.4
275	1400	86.5	5.5	10.7	7.8	72.0	9.3	45.2
275	1500	87.0	5.5	10.8	7.8	78.0	10.5	44.8
275	1600	87.3	5.5	10.8	7.8	81.0	12.4	44.8
275	1700	87.0	5.4	10.9	7.7	81.0	11.1	44.0
275	1800	87.1	5.4	10.9	7.7	84.0	11.0	43.9
275	1900	86.8	5.3	10.9	7.7	84.0	11.1	43.5
275	2000	86.3	5.3	10.8	7.7	84.0	9.9	43.3
275	2100	87.1	5.3	10.8	7.7	81.0	6.8	43.3
275	2200	86.6	5.2	10.7	7.7	75.0	5.3	42.7
275	2300	86.5	5.3	10.6	7.7	72.0	4.1	42.8

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
276	0	86.1	5.2	10.6	7.7	69.0	3.9	42.6
276	100	86.1	5.2	10.5	7.6	69.0	3.9	42.2
276	200	85.9	5.2	10.4	7.8	69.0	3.5	42.4
276	300	85.9	5.2	10.4	7.7	69.0	3.6	42.4
276	400	85.6	5.2	10.3	7.7	66.0	3.0	42.5
276	500	85.9	5.2	10.3	7.7	66.0	2.2	42.6
276	600	86.0	5.2	10.3	7.7	63.0	1.9	42.6
276	700	85.8	5.2	10.3	7.8	63.0	2.0	42.4
276	800	85.6	5.2	10.2	7.8	63.0	2.8	42.4
276	900	86.0	5.2	10.2	7.7	63.0	3.1	42.2
276	1000	85.9	5.2	10.2	7.7	63.0	3.9	42.0
276	1100	85.3	5.2	10.2	7.5	63.0	5.0	41.9
283	900	77.5	4.9	5.1	7.6	81.0	4.2	40.0
283	1000	78.1	4.9	5.1	7.8	78.0	4.4	40.0
283	1100	77.6	4.9	5.1	7.7	81.0	4.2	39.9
283	1200	77.9	4.9	5.2	7.6	84.0	4.9	39.9
283	1300	78.0	4.9	5.3	7.6	90.0	6.9	39.9
283	1400	77.9	4.9	5.5	7.4	96.0	8.7	39.5
283	1500	78.1	4.9	5.6	7.8	99.0	9.8	39.3
283	1600	78.0	4.9	5.6	7.7	102.0	11.2	39.2
283	1700	77.6	4.9	5.7	7.7	105.0	12.7	39.2
283	1800	77.6	4.8	5.7	7.8	102.0	15.0	39.0
283	1900	77.2	4.8	5.7	7.7	102.0	13.1	38.8
283	2000	76.6	4.8	5.7	7.8	99.0	9.2	38.8
283	2100	76.1	4.9	5.6	7.7	93.0	7.4	39.2
283	2200	75.6	4.9	5.5	7.7	84.0	5.3	39.1
283	2300	74.6	4.9	5.5	7.6	78.0	3.1	39.5

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
284	0	74.3	4.9	5.4	7.7	75.0	1.8	39.7
284	100	74.0	4.9	5.4	7.8	69.0	0.7	39.7
284	200	73.6	4.9	5.4	7.7	66.0	0.1	39.7
284	300	73.4	4.9	5.3	7.6	63.0	0.8	39.7
284	400	73.5	4.9	8.8	7.7	63.0	1.2	39.8
284	500	73.1	4.9	5.3	7.7	60.0	1.2	39.9
284	600	73.3	4.9	5.3	7.7	60.0	0.8	39.9
284	700	72.2	4.9	5.3	7.6	60.0	0.2	39.7
284	800	73.5	4.9	5.3	7.6	60.0	0.1	39.7
284	900	74.3	4.9	5.3	7.7	48.0		39.5
284	1000	73.5	4.9	5.3	7.6	60.0	0.5	39.3
284	1100	73.4	4.9	5.4	7.6	60.0	2.4	39.2
284	1200	73.8	4.8	5.4	7.3	63.0	4.7	38.8
284	1300	73.8	4.8	5.5	7.5	72.0	7.7	38.8
284	1400	73.5	4.8	5.8	7.7	78.0	10.4	38.7
284	1500	73.4	4.8	6.1	7.6	87.0	12.6	38.6
284	1600	72.8	4.8	6.1	7.6	93.0	14.1	38.5
284	1700	72.2	4.7	6.3	7.6	99.0	18.0	38.0
284	1800	72.0	4.7	6.2	7.7	105.0	26.5	37.8
284	1900	70.7	4.7	6.1	7.6	105.0	20.5	38.0
284	2000	70.5	4.8	6.0	7.6	96.0	11.5	38.4
284	2100	70.1	4.8	5.9	7.4	93.0	8.4	38.2
284	2200	39.0	2.7	16.8	2.2	1254.0		20.8
284	2300	70.3	4.8	5.9	7.7	84.0	5.3	38.7
285	0	70.3	4.8	5.8	7.7	78.0	4.3	39.0
285	100	69.6	4.9	5.7	7.6	75.0	3.4	39.2
285	200	69.4	4.8	5.7	7.6	75.0	3.1	39.0
285	300	69.3	4.8	5.7	7.4	69.0	2.2	38.8
285	400	69.2	4.9	5.7	7.7	69.0	1.6	39.2
285	500	69.2	4.8	5.7	7.6	66.0	2.7	38.6
285	600	68.7	4.9	5.7	7.6	69.0	3.4	39.1
285	700	69.2	4.9	5.7	7.6	69.0	4.1	39.2
285	800	69.3	4.9	5.7	7.6	69.0	4.8	39.1
285	900	68.5	4.9	5.6	7.6	72.0	5.2	39.2
285	1000	67.9	4.9	5.7	7.6	75.0	6.3	39.2
285	1100	66.2	4.9	5.8	7.7	75.0	7.1	39.2
285	1200	66.4	4.9	5.8	7.6	81.0	9.6	39.9
285	1300	66.3	4.9	6.0	7.6	90.0	13.8	39.1
285	1400	66.3	4.9	6.1	7.5	93.0	15.6	39.1
285	1500	66.2	4.9	6.3	7.5	99.0	15.9	39.5
285	1600	66.2	4.8	6.5	7.7	105.0	17.5	38.9
285	1700	66.1	4.8	6.6	7.6	111.0	22.5	39.0
285	1800	65.7	4.9	6.7	7.6	114.0	24.0	39.1
285	1900	65.0	4.9	6.6	7.6	117.0	23.0	39.8
285	2000	64.4	4.8	6.5	7.4	111.0	15.9	38.7
285	2100	64.1	4.8	6.4	7.7	102.0	12.0	38.7
285	2200	64.0	4.8	6.4	7.6	96.0	10.4	38.9
285	2300	63.4	4.8	6.3	7.6	90.0	9.5	39.0

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
286	0	63.4	4.8	6.4	7.6	90.0	8.8	39.0
286	100	63.1	4.8	6.4	7.6	87.0	7.7	38.9
286	200	63.3	4.8	6.4	7.6	84.0	7.4	39.0
286	300	63.3	4.8	6.4	7.5	81.0	6.3	38.8
286	400	63.4	4.8	6.4	7.5	78.0	5.8	39.0
286	500	63.7	4.8	6.3	7.5	75.0	5.3	38.5
286	600	63.7	4.8	6.3	7.5	78.0	5.8	38.3
286	700	63.1	4.8	6.3	7.6	78.0	6.1	38.4
286	800	63.8	4.8	6.3	7.5	78.0	7.6	38.4
286	900	64.0	4.8	6.2	7.5	75.0	5.9	38.4
286	1000	63.8	4.8	6.4	7.5	87.0	10.6	38.7
286	1100	65.6	5.4	6.6	7.5	105.0	13.8	44.3
286	1200	67.4	5 4	6.8	7.5	96.0	15.2	43.9
286	1300	68.5	5.4	7.0	7.4	102.0	15.5	44.0
286	1400	68.6	5.4	7.1	7.4	108.0	16.3	43.8
286	1500	68.3	5.3	7.4	7.5	114.0	17.1	43.3
286	1600	68.9	5.3	7.5	7.5	117.0	18.7	43.3
286	1700	69.3	5.3	7.7	7.7	123.0	23.1	43.6
286	1800	69.1	5.3	7.6	7.5	123.0	27.0	43.2
286	1900	68.8	5.3	7.5	7.5	123.0	25.7	43.0
286	2000	68.6	5.2	7.4	7.5	111.0	14.4	42.4
286	2100	68.6	5.2	7.3	7.5	102.0	9.4	42.4
286	2200	69.6	5.2	7.3	7.6	93.0	7.4	42.1
286	2300	70.3	5.2	7.3	7.5	87.0	5.5	41.9
287	0	70.3	5.1	7.3	7.5	81.0	4.7	41.7
287	100	71.1	5.1	7.2	7.5	75.0	3.5	41.5
287	200	71.5	5.1	7.2	7.4	72.0	2.3	41.2
287	300	72.3	5.1	7.3	7.6	69.0	1.2	41.2
287	400	72.9	5.1	7.2	7.5	66.0	0.3	41.0
287	500	72.1	5.1	7.2	7.5	63.0	0.2	41.0
287	600	71.2	5.0	7.1	7.2	60.0	0.6	40.6
287	700	70.4	5.0	7.1	7.5	60.0	0.9	40.9
287	800	69.5	5.0	7.1	7.6	57.0	0.9	40.6
287	900	69.5	5.0	7.0	7.5	60.0	0.7	40.7
287	1000	70.0	5.0	7.1	7.4	60.0	0.6	40.4
287	1100	69.8	5.0	7.2	7.4	63.0	3.5	40.4
287	1200	70.3	5.0	7.3	7.4	72.0	8.3	40.4
287	1300	71.0	5.0	7.8	7.5	81.0	11.7	40.7
287	1400	71.8	5.0	8.0	7.4	93.0	13.8	40.4
287	1500	72.4	5.0	8.4	7.4	102.0	15.7	40.8
287	1600	72.8	5.1	8.4	7.4	105.0	16.8	41.0
287	1700	72.8	5.0	8.3	7.5	111.0	19.2	40.6
287	1800	72.6	5.0	8.4	7.5	111.0	23.3	40.9
287	1900	72.0	5.0	8.2	7.5	105.0	22.3	40.8
287	2000	71.9	5.0	8.1	7.4	99.0	12.3	40.4
287	2100	71.8	5.0	8.0	7.3	93.0	8.7	40.2
287	2200	71.8	4.9	7.9	7.3	87.0	6.7	39.9
287	2300	71.9	4.9	7.9	7.5	81.0	5.1	39.9

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
288	0	71.6	4.9	7.9	7.5	75.0	4.1	39.8
288	100	71.6	4.9	7.9	7.4	72.0	3.2	39.6
288	200	71.4	4.9	7.8	7.3	69.0	2.3	39.5
288	300	71.0	4.9	7.8	7.4	66.0	1.5	39.4
288	400	71.3	4.9	7.8	7.6	66.0	0.9	39.4
288	500	70.5	4.9	7.7	7.4	63.0	0.6	39.4
288	600	70.3	4.9	7.7	7.4	63.0	0.2	39.2
288	700	70.3	4.8	7.6	7.3	60.0	0.3	39.0
288	800	70.1	4.9	7.6	7.4	57.0	0.5	39.2
288	900	70.2	4.9	7.7	7.5	57.0	0.3	39.2
288	1000	70.0	4.9	7.8	7.4	60.0	3.0	39.2
288	1100	69.9	4.9	7.9	7.4	69.0	7.0	39.1
288	1200	70.0	4.9	8.1	7.4	81.0	10.7	39.3
288	1300	70.4	4.9	8.4	7.4	90.0	13.4	39.5
288	1400	70.7	4.9	8.7	7.5	102.0	16.3	39.9
288	1500	71.1	5.1	8.8	7.5	111.0	18.9	41.1
288	1600	71.6	5.1	9.2	7.5	117.0	27.2	41.2
288	1700	71.7	5.1	9.2	7.5	123.0		41.5
288	1800	70.5	5.1	8.9	7.4	123.0	29.6	41.3
288	1900	70.5	5.0	8.9	7.6	114.0	16.3	40.2
288	2000	69.9	5.0	8.7	7.5	102.0	11.7	40.1
288	2100	70.3	4.9	8.6	7.5	93.0	9.3	39.6
288	2200	70.3	4.9	8.6	7.5	90.0	7.7	39.1
288	2300	70.3	4.8	8.6	7.5	84.0	6.7	38.8
289	0	70.6	4.8	8.6	7.5	81.0	5.5	38.7
289	100	69.6	4.8	8.5	7.5	78.0	4.7	38.4
289	200	69.3	4.7	8.5	7.4	75.0	3.8	38.1
289	300	69.6	4.7	8.4	7.4	72.0	3.0	38.1
289	400	69.5	4.7	8.4	7.4	69.0	2.7	38.1
289	500	69.6	4.7	8.4	7.5	69.0	2.7	37.8
289	600	69.4	4.7	8.4	7.5	69.0	2.1	38.0
289	700	69.6	4.7	8.3	7.5	69.0	1.7	37.9
289	800	69.3	4.7	8.3	7.4	66.0	1.7	37.8
289	900	69.2	4.7	8.3	7.5	66.0	2.3	38.0
289	1000	67.4	4.7	8.3	7.4	69.0	3.7	38.0
289	1100	65.8	4.7	8.4	7.6	78.0	7.1	38.1
289	1200	65.7	4.8	8.7	7.5	84.0	10.7	38.5
289	1300	64.6	4.8	9.0	7.5	96.0	15.0	38.7
289	1400	64.2	4.9	9.5	7.4	105.0	17.5	39.2
289	1500	64.3	4.9	9.8	7.5	114.0	19.6	39.6
289	1600	64.4	4.9	10.1	7.6	120.0	24.6	39.5
289	1700	64.9	4.9	10.4	7.5	123.0	28.7	40.0
289	1800	64.8	4.9	10.4	7.5	123.0	29.0	39.7
289	1900	64.7	4.8	10.3	7.5	114.0	18.0	38.8
289	2000	64.8	4.8	10.1	7.5	102.0	12.0	38.7
289	2100	64.8	4.8	9.9	7.6	93.0	9.2	38.5
289	2200	65.0	4.8	9.7	7.5	90.0	7.6	38.2
289	2300	65.5	4.7	9.5	7.5	84.0	6.7	37.5

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
290	0	65.5	4.6	9.4	7.5	78.0	5.5	37.0
290	100	65.7	4.6	9.3	7.4	78.0	4.3	36.7
290	200	65.6	4.6	9.2	7.5	75.0	3.1	36.7
290	300	65.7	4.6	9.1	7.5	69.0	2.2	36.6
290	400	65.6	4.6	9.0	7.5	66.0	1.4	36.4
290	500	65.8	4.6	8.9	7.5	66.0	1.4	36.4
290	600	66.2	4.6	8.8	7.5	63.0	0.6	36.4
290	700	66.0	4.5	8.7	7.5	63.0		36.1
290	800	66.3	4.5	8.7	7.5	60.0		36.3
290	900	66.2	4.5	8.6	7.4	60.0	1.4	36.3
290	1000	66.4	4.5	8.7	7.4	63.0	3.7	36.2
290	1100	66.6	4.6	8.8	7.5	72.0	7.3	36.6
290	1200	66.7	4.6	9.0	7.6	81.0	10.2	36.5
290	1300	66.2	4.6	9.2	7.5	84.0	12.2	36.4
290	1400	66.4	4.6	9.3	7.5	87.0	12.0	36.4
290	1500	66.7	4.6	9.5	7.5	87.0	12.7	36.6
290	1600	67.2	4.6	9.8	7.5	93.0	16.0	36.4
290	1700	67.5	4.6	10.0	7.6	93.0	17.1	36.4
290	1800	68.1	4.6	10.1	7.5	93.0	21.4	36.4
290	1900	68.2	4.5	9.9	7.5	90.0	10.9	35.6
290	2000	68.2	4.4	9.8	7.4	84.0	6.8	34.8
290	2100	68.1	4.4	9.7	7.5	81.0	5.4	35.1
290	2200	68.1	4.4	9.6	7.5	75.0	3.1	34.9
290	2300	68.4	4.4	9.5	7.5	72.0	1.6	35.0
291	0	68.0	4.4	9.4	7.5	66.0	0.2	34.9
291	100	68.3	4.4	9.3	7.5	63.0	0.9	34.7
291	200	67.8	4.3	9.2	7.4	63.0	1.5	34.5
291	300	68.2	4.3	9.1	7.6	60.0	2.2	34.6
291	400	67.0	4.3	9.0	7.5	57.0	2.4	34.4
291	500	67.2	4.3	9.0	7.5	54.0	1.8	34.4
291	600	66.8	4.3	8.9	7.5	57.0	2.0	34.1
291	700	66.6	4.3	8.8	7.5	57.0	2.4	33.9
291	800	65.8	4.3	8.9	7.6	54.0	3.1	34.2
291	900	66.5	4.3	8.8	7.6	57.0	2.3	34.0
291	1000	66.8	4.3	8.8	7.5	57.0	1.1	34.6
291	1100	66.9	4.4	8.8	7.6	66.0	1.7	34.8
291	1200	69.8	4.4	9.3	7.5	81.0	5.8	34.8
291	1300	70.3	4.3	9.5	7.7	93.0	9.4	34.3
291	1400	71.4	4.3	9.6	7.5	105.0	11.5	34.3
291	1500	73.9	4.4	10.4	7.5	111.0	13.3	34.9
291	1600	73.4	4.3	9.8	7.5	117.0	18.0	34.5
291	1700	74.6	4.4	9.9	7.5	123.0	23.0	34.8
291	1800	69.3	4.3	10.4	7.7	123.0	21.7	34.2
291	1900	68.4	4.3	10.2	7.6	111.0	12.3	33.9
291	2000	68.7	4.2	10.1	7.4	102.0	6.9	33.6
291	2100	68.7	4.2	9.9	7.5	93.0	4.3	33.7
291	2200	69.2	4.2	9.7	7.5	87.0	3.5	33.2
291	2300	69.4	4.2	9.6	7.8	78.0	2.0	33.0

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
292	0	69.2	4.2	9.5	7.6	75.0	0.6	32.8
292	100	69.3	4.1	9.3	7.6	69.0	0.5	32.7
292	200	69.4	4.1	9.3	7.4	69.0	1.4	32.3
292	300	69.4	4.1	9.2	7.5	66.0	1.9	32.5
292	400	70.3	4.1	9.1	7.8	63.0	2.6	32.4
292	500	70.3	4.1	9.0	7.6	57.0	2.0	32.5
292	600	70.1	4.1	8.9	7.6	60.0	1.2	32.3
292	700	69.5	4.1	8.9	7.6	57.0	1.5	32.1
292	800	70.3	4.1	8.8	7.5	54.0	4.2	32.0
292	900	71.1	4.1	8.9	7.9	57.0	2.8	32.3
292	1000	71.0	4.1	8.9	7.6	57.0	1.3	32.7
292	1100	70.9	4.1	8.9	7.6	63.0	1.6	32.7
292	1200	71.3	4.2	8.9	7.6	75.0	5.3	33.2
292	1300	71.2	4.2	9.2	7.5	87.0	9.2	33.5
292	1400	71.2	4.2	9.4	7.7	99.0	12.7	33.2
292	1500	71.6	4.4	9.7	7.6	108.0	15.0	35.3
292	1600	73.2	4.5	10.1	7.4	120.0	19.5	35.9
292	1700	74.0	4.4	10.1	7.4	129.0	24.8	35.4
292	1800	72.5	4.6	10.1	7.5	132.0	25.2	36.5
292	1900	72.8	4.3	10.2	7.7	123.0	14.0	33.9
292	2000	71.9	4.3	10.0	7.6	111.0	9.1	34.1
292	2100	72.4	4.1	9.8	7.5	105.0	6.3	32.7
292	2200	72.5	4.0	9.8	7.4	96.0	4.0	31.5
292	2300	72.8	4.0	9.6	7.4	90.0	2.3	31.1
293	0	73.1	3.9	9.5	7.9	84.0	1.2	30.8
293	100	73.2	3.9	9.4	7.6	78.0		30.7
293	200	72.7	3.9	9.2	7.5	75.0	0.9	30.3
293	300	73.0	3.9	9.2	7.5	69.0	1.1	30.3
293	400	73.3	3.9	9.1	7.5	69.0	0.7	30.4
293	500	73.5	3.8	8.9	7.5	63.0	1.9	30.1
293	600	74.5	3.8	8.9	7.7	63.0	2.0	30.1
293	700	74.5	3.8	8.9	7.6	63.0	2.3	30.0
293	800	74.8	3.8	8.9	7.5	63.0	1.9	30.1
293	900	74.3	3.9	8.9	7.6	63.0	0.9	30.2
293	1000	74.9	3.9	8.9	7.5	66.0	1.3	30.3
293	1100	74.8	3.9	9.0	7.8	75.0	4.7	30.5
293	1200	75.1	4.0	9.2	7.6	84.0	9.8	31.8
293	1300	75.1	3.9	9.4	7.6	93.0	11.8	31.0
293	1400	75.0	4.0	9.5	7.5	102.0	13.1	31.9
293	1500	74.7	4.0	9.6	7.5	165.0	15.1	31.8
293	1600	75.3	4.1	9.7	7.7	171.0	14.8	32.8
293	1700	76.2	4.2	9.7	7.5	174.0	14.2	33.1
293	1800	75.8	4.1	9.7	7.5	168.0	12.1	32.5
293	1900	75.5	4.2	9.6	7.5	159.0	8.8	33.1
293	2000	75.1	4.1	9.5	7.4	153.0	8.4	32.5
293	2100	75.5	4.1	9.5	7.8	153.0	8.2	32.0
293	2200	75.6	4.1	9.5	7.6	150.0	7.8	32.3
293	2300	75.7	4.1	9.5	7.6	147.0	7.6	32.2

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
294	0	76.3	4.2	9.5	7.5	144.0	7.6	32.9
294	100	76.6	4.2	9.4	7.5	144.0	7.5	33.3
294	200	76.3	4.1	9.5	7.7	144.0	7.8	32.6
294	300	76.5	4.1	9.5	7.5	144.0	7.6	32.5
294	400	76.4	4.1	9.5	7.5	147.0	7.7	32.7
294	500	76.4	4.0	9.4	7.5	147.0	7.8	31.7
294	600	76.5	4.1	9.4	7.5	147.0	7.9	32.8
294	700	76.6	4.1	9.5	7.8	147.0	8.0	32.3
294	800	76.7	4.1	9.5	7.5	150.0	8.3	32.3
294	900	77.3	4.3	9.5	7.5	150.0	9.1	33.8
294	1000	77.1	4.1	9.5	7.4	156.0	10.0	32.7
294	1100	77.5	4.3	9.6	7.5	165.0	12.2	34.5
294	1200	78.0	4.7	9.8	7.8	186.0	14.4	37.4
294	1300	79.1	5.0	10.4	7.5	201.0	17.0	40.1
294	1400	78.8	5.1	10.4	7.5	213.0	18.2	41.2
294	1500	78.5	4.8	10.6	7.5	219.0	19.2	38.8
294	1600	77.3	4.7	10.4	7.5	219.0	19.7	37.4
294	1700	77.1	4.6	10.2	7.7	216.0	17.9	36.4
294	1800	77.0	4.4	10.1	7.6	210.0	15.8	35.0
294	1900	77.5	4.3	10.1	7.5	204.0	14.6	34.2
294	2000	78.2	4.2	9.9	7.5	195.0	14.2	33.1
294	2100	78.2	4.2	9.8	7.5	192.0	14.1	33.2
294	2200	77.9	4.2	9.8	7.6	186.0	13.4	32.9
294	2300	78.1	4.1	9.8	7.5	180.0	12.7	32.5
295	0	77.7	3.9	9.8	7.5	177.0	11.8	30.8
295	100	77.7	3.8	9.7	7.5	168.0	9.7	30.1
295	200	77.8	3.8	9.7	7.4	165.0	9.8	29.7
295	300	78.0	3.8	9.6	7.7	168.0	8.6	29.7
295	400	77.8	3.7	9.6	7.6	153.0	6.2	28.7
295	500	78.1	3.6	9.5	7.5	147.0	4.7	28.2
295	600	77.5	3.5	9.4	7.5	138.0	3.5	27.5
295	700	78.0	3.5	9.4	7.5	132.0	2.7	27.6
295	800	78.2	3.5	9.3	7.8	123.0	2.1	27.5
295	900	78.2	3.6	9.3	7.6	123.0	3.4	28.2
295	1300	78.7	3.8	9.8	7.5	177.0	13.9	29.4
295	1400	78.7	3.8	9.8	7.7	183.0	14.4	29.8
295	1600	79.2	3.8	9.9	7.5	183.0	13.9	29.7
295	1800	78.7	3.9	9.8	7.5	177.0	10.9	30.6
295	1900	79.0	4.1	9.7	7.8	171.0	9.9	32.0
295	2000	78.9	4.1	9.7	7.6	168.0	9.2	32.5
295	2100	79.0	4.3	9.6	7.5	165.0	8.7	34.6
295	2200	79.0	4.2	9.6	7.4	162.0	8.6	33.1
295	2300	78.9	4.2	9.7	7.5	162.0	9.0	33.6

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
296	0	78.8	4.3	9.7	7.8	162.0	9.3	33.8
296	100	79.6	4.4	9.6	7.6	162.0	9.5	34.8
296	200	78.7	4.2	9.6	7.4	165.0	9.8	33.4
296	300	79.0	4.4	9.7	7.4	165.0	10.1	34.8
296	400	79.0	4.5	9.6	7.4	165.0	9.9	35.6
296	500	78.8	4.5	9.6	7.8	165.0	10.0	35.5
296	600	78.9	4.6	9.6	7.6	165.0	10.0	36.7
296	700	79.0	4.5	9.6	7.5	168.0	9.9	35.7
296	800	79.4	4.5	9.6	7.4	168.0	10.3	36.2
296	900	79.2	4.7	9.6	7.4	171.0	11.2	37.4
296	1000	79.3	4.9	9.7	7.7	177.0	12.3	39.4
296	1100	79.5	4.9	9.7	7.6	180.0	11.8	39.1
296	1200	79.3	4.9	9.7	7.5	180.0	11.6	39.3
296	1300	79.3	4.8	9.8	7.5	180.0	11.9	38.3
296	1400	79.7	4.7	9.9	7.5	183.0	11.7	37.7
296	1500	79.7	4.6	9.8	7.8	183.0	10.7	37.1
296	1600	80.1	4.5	9.8	7.6	180.0	11.3	35.6
296	1700	79.9	4.3	9.8	7.6	177.0	10.5	33.8
296	1800	80.0	4.1	9.6	7.5	171.0	9.4	32.0
296	1900	79.9	4.0	9.6	7.5	165.0	8.3	31.5
296	2000	80.2	4.2	9.6	7.7	159.0	8.2	33.4
296	2100	79.6	3.9	9.5	7.6	159.0	8.3	31.1
296	2200	79.5	4.0	9.5	7.6	156.0	68.1	31.9
296	2300	79.6	4.0	9.4	7.6	150.0	7.8	31.5
297	0	79.7	4.0	9.4	7.6	150.0	7.0	31.6
297	100	79.7	4.1	9.4	7.8	144.0	6.3	32.0
297	200	79.7	3.9	9.5	7.6	144.0	5.8	30.8
297	300	80.6	4.0	9.4	7.6	141.0	5.4	31.5
297	400	80.4	3.8	9.3	7.6	138.0	4.3	29.5
297	500	80.3	3.7	9.3	7.6	132.0	4.1	29.2
297	600	80.7	3.7	9.3	7.8	129.0	3.9	28.9
297	700	80.9	3.9	9.3	7.6	129.0	4.1	30.6
297	800	79.9	3.8	9.2	7.6	129.0	4.3	30.0
297	900	79.3	3.9	9.2	7.6	129.0	4.9	30.6
297	1000	79.3	3.9	9.2	7.6	135.0	5.9	31.0
297	1100	79.4	4.0	9.3	8.4	135.0	7.2	31.9
297	1200	80.3	4.5	9.4	7.7	153.0	9.5	36.1
297	1300	80.4	4.6	9.6	7.7	174.0	11.5	36.8
297	1400	79.8	4.4	9.5	7.6	174.0	11.9	35.3
297	1500	80.4	4.3	9.9	7.6	177.0	13.2	34.5
297	1600	81.3	4.5	9.9	7.7	180.0	21.0	36.1
297	1700	81.3	4.4	9.8	7.7	189.0	14.3	35.3
297	1800	81.8	4.1	9.8	7.5	186.0	12.1	32.8
297	1900	81.9	4.1	9.7	7.6	174.0	9.7	32.1
297	2000	81.7	3.8	9.6	7.5	171.0	10.7	29.4
297	2100	81.4	3.7	9.6	7.5	168.0	10.6	29.1
297	2200	81.6	3.6	9.5	7.8	162.0	9.1	28.3
297	2300	81.3	3.6	9.5	7.6	156.0	6.3	27.8

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
298	0	81.5	3.6	9.3	7.6	147.0	5.3	28.0
298	100	81.9	3.5	9.2	7.6	138.0	3.3	27.0
298	200	81.4	3.4	9.2	7.5	132.0	2.0	26.0
298	300	81.7	3.3	9.2	8.0	123.0	1.0	25.6
298	400	81.3	3.3	9.1	7.6	117.0	0.3	25.1
298	500	81.4	3.2	9.0	7.6	111.0	1.3	24.8
298	600	80.9	3.2	8.9	7.6	105.0	2.0	24.4
298	700	80.9	3.2	8.9	7.6	102.0	1.7	24.5
298	800	80.9	3.2	8.8	7.9	99.0	1.6	25.0
298	900	80.5	3.2	8.8	7.7	99.0	1.2	24.5
298	1000	80.7	3.3	8.8	7.6	105.0	1.2	25.9
298	1100	81.4	3.6	8.8	7.6	117.0	4.2	27.9
298	1200	81.7	3.9	8.9	7.6	132.0	7.5	30.6
298	1300	81.9	3.5	9.2	7.9	150.0	10.5	27.6
298	1400	82.9	3.7	9.4	7.7	162.0	11.5	29.2
298	1500	82.1	3.6	9.2	7.6	168.0	11.6	28.2
298	1600	85.5	3.8	9.5	7.6	174.0	13.4	29.7
298	1700	86.7	3.9	9.6	7.6	174.0	15.3	30.3
298	1800	88.0	3.9	9.6	7.9	171.0	11.9	30.9
298	1900	87.7	3.5	9.5	7.7	159.0	7.3	27.0
298	2000	87.6	3.3	9.3	7.6	147.0	5.3	25.9
298	2100	88.1	3.4	9.1	7.6	144.0	5.4	26.1
298	2200	88.2	3.3	9.0	7.6	144.0	8.4	25.2
298	2300	88.8	3.3	9.0	7.9	141.0	8.6	25.3
299	0	90.1	3.3	9.0	7.7	141.0	7.9	25.4
299	100	90.1	3.3	8.9	7.6	141.0	7.7	25.8
299	200	90.2	3.2	8.8	7.6	138.0	7.1	24.8
299	300	90.8	3.2	8.7	7.6	138.0	5.9	24.8
299	400	90.9	3.2	8.7	7.9	135.0	6.2	24.6
299	500	91.8	3.2	8.8	7.6	135.0	5.8	24.7
299	600	90.9	3.1	8.7	7.6	132.0	5.8	24.2
299	700	91.1	3.2	8.6	7.5	132.0	5.9	24.5
299	800	91.7	3.2	8.6	7.5	132.0	6.1	24.7
299	900	92.1	3.2	8.5	8.0	132.0	6.5	25.0
299	1000	93.1	3.2	8.7	7.6	135.0	7.3	24.7
299	1100	93.4	3.3	8.7	7.6	147.0	9.4	25.1
299	1200	94.6	3.5	8.9	7.6	162.0	10.7	27.0
299	1300	95.6	3.5	9.1	7.4	171.0	11.2	27.4
299	1400	96.3	3.5	9.2	7.9	168.0	11.1	27.3
299	1500	98.2	3.5	9.4	7.7	168.0	11.1	27.5
299	1600	98.0	3.4	9.4	7.4	165.0	10.6	26.3
299	1700	99.1	3.5	9.3	7.4	168.0	10.3	26.8
299	1800	99.1	3.4	9.2	7.5	162.0	9.6	26.1
299	1900	99.9	3.4	9.1	7.9	159.0	7.0	26.2
299	2000	100.3	3.2	9.1	7.6	150.0	5.6	24.4
299	2100	100.3	3.1	8.9	7.5	144.0	4.3	24.1
299	2200	99.6	3.1	8.7	7.5	135.0	2.5	23.9
299	2300	99.5	3.1	8.5	7.5	129.0	1.4	23.6

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
300	0	99.2	3.0	8.3	7.8	120.0	0.4	23.3
300	100	99.6	3.0	8.2	7.6	111.0	0.3	23.2
300	200	98.5	3.0	7.9	7.5	108.0	0.5	23.1
300	300	99.0	3.0	7.8	7.5	108.0	0.6	23.2
300	400	98.1	3.0	7.6	7.5	105.0	0.9	23.1
300	500	97.6	3.0	7.4	7.9	102.0	1.2	23.0
300	600	98.6	3.0	7.5	7.6	102.0	1.2	23.0
300	700	96.7	3.0	7.4	7.6	99.0	1.5	23.0
300	800	96.8	3.0	7.2	7.6	99.0	1.6	23.1
300	900	96.8	3.0	7.1	7.6	96.0	1.4	23.1
300	1000	97.1	3.0	7.1	8.6	99.0	0.8	22.9
300	1100	98.1	3.0	7.3	7.6	108.0	0.4	23.0
300	1200	97.8	3.0	7.5	7.6	120.0	1.9	23.1
300	1300	99.0	3.0	7.8	7.5	132.0	2.7	23.3
300	1400	99.9	3.1	8.2	7.5	141.0	3.8	23.7
300	1500	101.5	3.2	8.5	7.9	147.0	5.1	25.0
300	1600	103.5	3.2	9.0	7.6	144.0	4.8	24.4
300	1700	102.7	3.1	8.7	7.6	138.0	4.7	23.9
300	1800	102.3	3.1	8.5	7.5	135.0	3.8	24.0
300	1900	101.5	3.1	8.2	7.5	129.0	3.0	23.7
300	2000	101.2	3.1	8.1	8.0	126.0	2.7	23.6
300	2100	102.1	3.1	8.1	7.7	123.0	2.7	23.5
300	2200	100.9	3.1	7.9	7.6	120.0	2.4	23.4
300	2300	100.3	3.0	7.7	7.6	120.0	2.2	23.0
301	0	100.4	3.0	7.6	7.5	120.0	2.2	22.9
301	100	101.5	3.0	7.6	7.6	120.0	2.2	23.0
301	200	100.7	3.0	7.5	7.9	117.0	2.1	23.0
301	300	102.3	3.0	7.6	7.7	117.0	1.9	23.0
301	400	101.6	3.0	7.6	7.6	117.0	1.9	22.9
301	500	101.4	3.0	7.4	7.6	117.0	1.8	23.1
301	600	100.6	3.0	7.4	7.6	117.0	1.8	22.9
301	700	100.7	3.0	7.4	7.9	114.0	1.8	22.9
301	800	101.9	3.0	7.5	7.7	114.0	1.8	22.7
301	900	101.3	3.0	7.4	7.6	114.0	2.0	22.9
301	1000	100.9	3.0	7.3	7.6	117.0	1.8	23.0
301	1100	100.4	3.0	7.2	7.6	117.0	1.6	23.0
301	1200	100.5	3.0	7.1	7.9	114.0	1.5	23.3
301	1300	101.9	3.1	7.4	7.7	120.0	2.2	23.5
301	1400	101.8	3.1	7.4	7.6	120.0	2.2	23.9
301	1500	101.7	3.2	7.3	7.6	120.0	2.6	24.3
301	1600	101.6	3.2	7.3	7.6	123.0	3.0	24.8
301	1700	101.8	3.3	7.4	8.0	123.0	3.4	25.3
301	1800	103.5	3.4	7.6	7.6	126.0	3.7	26.0
301	1900	103.4	3.2	7.6	7.5	129.0	3.6	24.9
301	2000	102.8	3.4	7.5	7.5	129.0	3.7	26.1
301	2100	103.2	3.5	7.5	7.5	129.0	4.0	27.4
301	2200	103.9	3.7	7.6	7.8	132.0	4.4	28.9
301	2300	104.7	3.6	7.8	7.6	135.0	4.9	28.0

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
302	0	104.8	3.7	7.7	7.5	135.0	5.4	29.3
302	100	104.8	4.1	7.7	7.5	141.0	6.0	32.0
302	200	104.6	4.0	7.8	7.5	147.0	6.7	31.4
302	300	104.8	4.2	7.9	7.8	150.0	7.1	33.6
302	400	106.4	4.5	8.2	7.6	156.0	7.5	36.1
302	500	106.1	4.5	8.2	7.5	159.0	7.7	35.7
302	600	106.0	4.5	8.2	7.5	159.0	7.9	35.9
302	700	106.4	4.8	8.2	7.5	168.0	8.7	38.2
302	800	106.5	4.8	8.2	7.7	174.0	9.6	38.9
302	900	108.0	4.9	8.5	7.4	177.0	9.7	39.4
302	1000	107.2	4.9	8.5	7.5	183.0	10.2	39.4
302	1100	107.2	4.9	8.6	7.3	198.0	10.5	39.9
302	1200	107.7	5.1	8.6	7.4	198.0	11.0	41.1
302	1300	108.0	5.3	8.7	7.8	207.0	12.0	43.0
302	1400	109.5	5.4	9.1	7.5	219.0	13.5	44.6
302	1500	110.2	5.6	9.2	7.4	225.0	14.6	46.2
302	1600	111.3	6.0	9.4	7.4	228.0	15.4	50.0
302	1700	112.0	6.0	9.6	7.5	228.0	17.8	50.1
302	1800	112.1	6.0	9.6	7.8	228.0	15.2	49.8
302	1900	113.3	6.1	9.8	7.6	225.0	14.2	50.6
302	2000	113.6	6.0	9.6	7.5	222.0	13.8	50.2
302	2100	113.6	5.9	9.6	7.5	222.0	13.7	49.0
302	2200	113.5	6.1	9.5	7.5	225.0	14.0	50.6
302	2300	113.3	5.8	9.5	7.8	225.0	14.2	47.5
303	0	113.7	6.1	9.7	7.6	225.0	14.1	50.6
303	100	112.6	5.8	9.6	7.5	225.0	13.9	48.3
303	200	112.2	5.9	9.5	7.5	225.0	14.2	49.0
303	300	111.7	6.0	9.5	7.5	231.0	14.7	50.1
303	400	111.3	5.8	9.4	7.8	213.0	13.5	47.6
303	500	111.5	5.1	9.4	7.6	201.0	11.2	41.8
303	600	111.2	5.0	9.2	7.6	192.0	10.6	40.4
303	700	111.3	4.6	9.0	7.5	189.0	9.9	37.0
303	800	111.8	3.9	8.8	7.5	180.0	8.4	30.8
303	900	110.3	3.6	8.7	8.0	174.0	7.7	27.8
303	1000	110.7	3.3	8.7	7.7	171.0	7.5	25.9
303	1100	109.9	3.4	8.6	7.5	171.0	7.9	26.1
303	1200	109.4	3.5	8.6	7.6	177.0	8.6	27.2
303	1300	110.3	3.7	8.7	7.6	186.0	8.3	29.1
303	1400	110.5	4.1	8.8	7.9	192.0	9.2	32.0
303	1500	111.8	4.1	9.2	7.7	198.0	9.8	32.3
303	1600	111.9	4.1	9.3	7.7	195.0	13.9	32.4
303	1700	112.9	3.8	9.4	7.7	195.0	18.3	30.0
303	1800	112.5	3.7	9.3	7.5	189.0	10.1	28.6
303	1900	112.3	3.5	8.9	8.0	177.0	6.2	27.0
303	2000	111.5	3.2	8.7	7.7	162.0	4.2	24.4
303	2100	109.9	3.1	8.3	7.6	153.0	2.8	23.8
303	2200	108.5	3.0	8.0	7.5	147.0	1.5	23.1
303	2300	106.8	2.9	7.7	7.5	135.0	0.3	22.2

SAINT JOHN RIVER AWQM DATA 1984

DAYS	HOUR	SP. COND. LOW US/CM	DISS. OXYGEN MG/L	WATER TEMP. DEG. C	pH	SP. COND. HIGH US/CM	AIR TEMP. DEG. C	DISS. OXYGEN % SAT'N.
304	0	105.9	2.9	7.4	7.8	129.0	1.0	22.1
304	100	106.5	2.9	7.3	7.7	123.0	1.8	22.1
304	200	104.6	2.9	7.0	7.6	117.0	2.3	21.9
304	300	103.6	2.8	6.8	7.5	111.0	3.3	21.6
304	400	102.5	2.9	6.6	7.6	108.0	3.4	21.9
304	500	101.7	2.8	6.4	7.9	105.0	4.3	21.8
304	600	102.0	2.8	6.5	7.8	99.0	5.6	21.4
304	700	100.3	2.8	6.2	7.8	96.0	6.3	21.7
304	800	98.7	2.8	6.0	7.7	93.0	6.9	21.5
304	900	97.0	2.8	5.9	7.7	93.0	5.5	21.4
304	1000	97.1	2.9	5.8	8.1	93.0	3.7	22.0
304	1100	98.6	2.9	6.1	7.8	105.0	2.0	22.3
304	1200	98.6	3.0	6.3	7.7	117.0	0.4	22.7
304	1300	99.0	3.0	6.6	7.7	132.0	2.5	23.0
304	1400	100.3	3.1	7.1	7.7	147.0	4.7	23.7
304	1500	102.2	3.1	7.5	8.0	159.0	6.8	23.8
304	1600	104.5	3.1	8.0	7.8	165.0	10.5	23.6